# FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

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LONDON, SATURDAY, DECEMBER 13, 1873.

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50 Carn Camborne, 6s.
50 Dask Van, £21%.
50 Dask Walls.
50 Dask Van, £23%.
50 East Van, £23%.
50 Plynlimmon, 6s. 6d.
50 East Van, £23%.
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3 Dolsoath, £4934.

15 Dyliffe, £7.

30 East Chiverton, 25s.

70 Excelsior, 7s. 9d.

20 Eberhardt, £4 9s.

40 E. Llangynog.

15 East Van, £2 10s. 6d.

ra Creek, 42s. 64.

70 New Rosario, 19s.
2Copper, £28 7s 6d.
30 New foundland.
30 Newfoundland.
31 Newfoundland.
32 Van Consols, £3 16s.
33 Van Consols, £3 16s.
34 Wheal Crebor, £4 3 9
35 United Bituminous
36 Van College, 25 Van Consols, £3 16s.
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38 Wheal Crebor, £4 3 9
30 Whisper.
39 Vest Esgair Lie.
30 West Esgair Lie.
30 W. Tankerville, £2 6 3

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23 years), is a SELLER at net prices of:—

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WEEKLY MINING CIRCULAR, EVERY FRIDAY .-LONDON DAILY RECORD, STOCK & SHARE LIST, Every Evening Published by P. Watson, Stock and Share Dealer, 79, Old Broad-street, E.C. Bankers: The Alliance Bank, and Union Bank of London.

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IMPORTANT TO SHAREHOLDERS IN ALL PUBLIC COMPANIES.

WHAT TO SELECT—WHAT TO AVOID.—
BY FREDK. WM. MANSELL,
ENGLISH AND FOREIGN STOCK AND SHARE DEALER,
PINNER'S HALL, OLD BROAD STREET, LONDON, E.C.
The DECEMBER number (now ready) contains a Comprehensive Review of the
Position and Prospects of the General Investment and Mining Markets, &c.,
which should be read by all shareholders and others interested in such matters. It also contains many valuable hints to speculators.

\*\*\* Differing in every respect from all monthly Circulars, it embodies a large
amount of valuable information, and well deserves being filed for future reference.

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20 Allty-Crib. 55 Fortescue, 10s.
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30 Chicago (£10 paid).
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80 Cwm Elan, 5s.
10 Cook's Kitchen, £12.
70 Cedar Creek, 42s. 6d.
30 Caldbeck Fells.

10 Cedra Crees, 2.3. 60.

10 Caldbeck Fells.

60 Clee Hill Coll., 12s. 3d.

70 Don Pedro.

10 Don Pedro.

10 Don Pedro.

10 East Lovell., £11½.

10 East Grenville, 9s.

10 East Lovell., £11½.

10 East Lovell., £11½.

115 East Van., £2 11s.

15 East Seton, 5s. 6d.

15 Eberhardt, £4 10s.

10 Exchequer, 15s. 6d.

17 Frontino, 7s.

18 Flagstaff, £3 12s.

Banh

35 Hingston, 38s, 9d.
20 Hudson's Bay.
25 I. X. L.
45 Ladywell, £2%,
25 Last Chance, 37s, 6d.
10 Lovell (Trin), £3,
60 Malabar, 13s,
75 Malpaso, 22s,
30 Marke Valley, 24s,
60 Mam. Copperopolis,
20 New Rosewarne, 7s, 6d
100 New Dolcoath,
45 New Quebrada,
25 New Rosario,
60 N.W. Rosewarne, 24s 9
50 Old Batholes, 16s,
55 Old Treburgett, 12s,
60 Ditto Preference,
10 Providence, £3%,
50 Parya Mountain,
50 Barkins Reach, 11s, 6

to the Preference.

10 Providence, £81/4.

50 Parys Mountain.

70 Perkins Beach, 11s. 6

40 Pennerley, 38s. 6d.

100 Penstruthal, 29s.

75 Prince of Wales, 5s.

50 Rio Tinto.

60 Ries. 14

30 Rookhope, 23s. 25 Richmond, £6 13s 9d. 250 Rossa Grande, 7s. 6d. 90 Ruby (£10 paid), 45s. 40 Sierra Buttes. 60 S. Roman Grav., 20s. 25 So. Condurrow. 50 South Aurora, 13s. 9d. 50 South Aurora, 138, 96 55 So. Carn Brea, 23 3 9 5 Spearne Moor, off. w. 30 Sweetland, £53/6. 100 Thornhill Reef, 34s, 100 Tecoma, 31s, 3d, 75 Tyllwyd. 25 Tankerville. 10 Treleigh Wood, £12, 40 Utah.

75 Tyllwyd.
25 Tankerville.
10 Treleigh Wood, £12.
40 Utah.
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10 Van, £35.
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60 West Panty-Go, 5s 6d
30 W. Esgair Lle, £3.
70 West Stiperstones, 9s.
10 Wh. Mary Ann, 42s.
25 Wheal Crebor, £4½.
30 W. Wh. Gorland, £1¾.
15 Wha Graville,
5 Wh. Margaret, £2¼.
20 Wheal Uny.

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Estimated net earnings available for the interest on the Preference Capital £67,875 per annum, being upwards of three times the amount required -£22,500. Price of subscription-par-£100 per £100 share, payable as follows:-

20	year's interest	on allotment. (Less half due 1st Jan., 1874, £3 per share
20		on 20th January, 1874.
25		on 20th February, 1874.
25	**********************************	on 20th March, 1514.
-		

Or, at the option of subscribers, the whole amount can be paid up on allotment. Under discount at six per cent. per annum on such pre-payment.

Subscribers will be entitled to the half-year's interest due lst January next—
£3 per share—which will be allowed as above.

Reckoning such allowance, and the discount on pre-payment of the instalments, the net price is reduced to about £96 5s. per share.

The shares will be transferred into the name of each subscriber free of stamp duty. The following is a list of the directors and officers of the company:—

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Hill Ironworks.
The Right Honourable the Earl of DUNRAVEN.
CHARLES GILPIN, Esq., M.P., Director of the South Eastern Railway Company. SAMPSON LLOYD, Esq., Patent Shaft and Axletree Company.

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Corporation.
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Wall.
GEORGE WILSON, Esq., Director of the Monkland Iron and Coal ENGINEER-W. H. THOMAS, Esq.

Mesers. COPE, ROSE, and PEARSON, 26, Great George-street, Westminster. Messrs. PRICE, HOLYLAND, and WATERHOUSE, 13, Gresham-street, E.C., London.

Messs. G. S. Herbert and Son are authorised by the contractors to offer for public subscription 500 Six per Cent. Preference shares of £100 each, being part of 3750 preference shares constituting the entire preference capital of the Cornwall Minerals Railway Company.

Subscribers will be entitled to the half-year's interest, due 1st January next—23 per share—which will be allowed as above.

The price of subscription is par, or £100 per £100 share, or, reckoning accrued interest and discount for pre-payment of instalments, the net price is reduced to about £96 So, per share, payable at the dates above mentioned.

The system of railways of this company, it will be seen on reference to the map, is of a very important character to West Cornwall, affording most valuable business facilities to the extensive series of mining properties in the district; as by it they are placed in direct railway communication with the port of Newquay on the north, and ports of Par and Fowey on the south; from which places extensive shipments of ore, both coastwise and the foreign trade, are made.

In addition to this, by the medium of the Cornwall Minerals Railway, the whole of the mining district is brought into direct railway communication, but the Cornwall Railway, with Falmouth and Penzance on the south, as well as with Plymouth, and cut the South Devon Railway, and the Bristol and Exeter Railway, with Exeter and Bristol, thereby giving access to the whole of England.

The entire railway system of the Cornwall Minerals Railway extends to about 52 miles.

The company also possesses special privileges in respect to the shipments from

The entire railway system of the Coruwall Minerals Railway extends to about 52 miles.

The company also possesses special privileges in respect to the shipments from Fowey Harbour, which is accessible to vessels of 1000 tons burthen at all times of the tide, and which will be improved, and by the addition of extensive wharves, sidings, and other works, adapted to the shipment of at least 2500 tons of material per day estimated to pass over the railway. The company, in addition, leases Newquay Harbour and Par Harbour, thus concentrating in itself all the necessary arrangements for the movement of ores, either by water or by railway.

The gross amount of earnings, including that from the harbours, is estimated at £18,250 per annum, and, after deducting working expenses and rents, the net earnings (after deducting the interest on the debentures and rent charge, amounting to £13,750 per annum), which would leave the sum of £37,575 available to meet the dividend on the preference capital.

The annual sum required to pay the dividend on the total preference shares is only £22,500 per annum, to meet which, it will be seen, the estimated amount available is upwards of three times the amount required for the payment of such preference dividend.

The character of the security may, therefore, be considered as unexcentionable.

there is upwards of three times the amount required for the payment of such he character of the security may, therefore, be considered as unexceptionable, he Cornwall Minerals Railway is incorporated by a special Act of Parliament and 37 Vict.), which consolidated the undertaking of the Cornwall Minerals laws and Harbour Company (Limited).

10 capital of the company is 2750,000, divided into 3730 six per cent, preference of £100 each (of which the 550 shares now offered form part), and 3750 mary shares of £100 each, with £250,000 debentures, he contract for the construction of the works provides for the completion of entire undertaking by July 1 next, and due provision for payment of interest he rate of 8 per cent. per annum on the preference shares during construction tercin provided.

een so actively proceeded with over the whole system, and, it is

the contractor being sanguine of having the lines in operation as early as reordary next.

The statement of the Chairman of the company at the last meeting of shareholders as to the prospects of the undertaking are exceedingly encouraging, as will be seen from the following extract from his speech:—
"The directors firmly believed that they had got possession of a district which had an immense amount of traffic for any railway which met its requirements. Not only did the district possess great mineral wealth, this railway having, in fact, been formed for the development of those resources, but it also traversed some of the finest scenery in that district, and he had no doubt that the passenger traffic of their line would hereafter form a very important feature in the earnings of their railway. (Cheers). The directors were quite satisfied, from personal inspection of the country, again and again renewed, that they had the very best grounds for believing that this would be a success. (Hear, hear.)"

The following table will illustrate the current market price of Railway Preference shares:

Name of the Company.	Rate of Preference Dividend per cent.	Stock Ex- change price per £100 Stock.	Equal to	
Bristol and Exeter Cornwall (Guaranteed Stock) Great Northern Great Western South Devon North Staffordshire Great Eastern Lancashire and Yorkshire Manchester, Sheffield and Lincolnshire Midland North Eastern (Stockton & Darliagton)	4 4 5 5 5 5 5 5 6 6 6 6	£ 94 103 115 115 106 110 128 135 128 135	£141 137½ 138 138 127 132 128 135 128 135 128	£41 371/2 39 38 27 32 28 35 28 35

6 6 6	135 128 135 134	135 128 135 134	35 28 35 34	•
6	at PAR-	£100-or,1	ess allo	W
	5 6 6 6	6 128 6 135 6 134 Now offer	6 128 128 6 135 135 6 129 129 6 135 155 6 134 134 Now offered for Su atpar_£100_or,	6 128 128 28 6 135 135 35 6 129 128 28 6 135 155 35

name of each applicant, free of stamp duty or other charges, and the share certificates of the company will be obtained and forwarded in due course.

In the event of no allotment being made to any applicant the deposit paid will be returned forthwith, without deduction; should a smaller amount be allotted than applied for the balance paid on application will be applied towards payment of the amount payable on allotment.

Appliestions, which must be accompanied by the payment of £10 on each share applied for, must be made on the annexed form, and can be forwarded either to Messrs. G. S. HEEBERT and SON, 73, Old Broad-street, E.C., London; or to Messrs. G. S. HEEBERT and SON, 73, Old Broad-street, E.C., London, of whom forms of application can be obtained.

73, Old Broad-street, E.C., London, 11th December, 1873.

Subscription for £50,000 in Six per Cent. Preference Shares of £100 each, part of £375,000, which constitutes the entire preference

capital of the CORNWALL MINERALS RAILWAY COMPANY.

Price of subscription—par—£100 per £100 share.

Subscribers will be entitled to the half-year's interest due lat January next, equal to £3 per share, thereby (with allowances for pre payment) reducing the net price to about £00 5s, per share.

FORM OF APPLICATION.

Go be retained by the bankers.)

To Messrs, G. S. Harbert and Son, 73, Old Broad-street, E.C., London.

GESTLEVEN,—Having poid to your credit at Messrs, Williams, Deacon, and Co., bankers, 29, Birchin-lane, E.C., London, the sum of pounds, being £19 per share, on my application for Six per Cent. Preference Shares of £100 each, of the Cornwail Minerals Railway Company, I request you to transfer to me that of the Sanda Railway Company, I request you to transfer to me that of the said shares, and I hereby agree to accept such transfer, Sandhill, Newcastle-upon-Tyne.

Name (in full). 

#### THE ST. LAWRENCE, VICTORIA, AND VALENTINE AMALGAMATED MINING

COMPANY (LIMITED).
Registered under the Joint Stock Companies Acts, 1862 and 1867. Capital £12,000, in 6000 shares of £2 each,

 Of which 1000 are now offered for subscription, payable as follows:—
 10s.

 On application
 10s.

 On allotment
 10s.

 Three months after allotment
 10s.

 Six months after allotment
 10s.

After which all liability will cease.

S.F. PORTER, Esq., Chairman, director Tyllwyd Silver-Lead Mining

Company (Limited).
C. J. BURY, Esq., St. Leonards, Nazing, Essex.
Colonel E. S. DANIELL, 14, St. James's square.
Capt. GEORGE JOHN HAMILTON, Chairman West Esgair Lle

Mining Company (Limited).

A. TOYNE Esq., director West Esgair Lie Mining Company

(Limited).

BANKERS.

LONDON AND COUNTY BANK, Lombard-street, London, E.C.

SOLICITOR-T. H. HARRISON, Esq., 89, London Wall, E.C.

AUDITOR-H. J. PUCKLE, Esq., 2, King William Street, E.C.

SECRETARY-D. FORREST, Esq.

OFFICES-164, GRESHAM HOUSE, OLD BROAD STREET, LONDON.

OFFICES—164, GRESHAM HOUSE, OLD BROAD STREET, LONDON.

PROSPECTUS.

This company was formed for developing and working three adjoining mining properties, formerly carried on as separate mines, and known as the Victoria, Valentine, and St. Lawrence Mines, situate in the parish of Brynford, Flintshire. The turnpike-road to Holywell passes through the sett, which is within two miles of that town, where there are extensive smelting works.

These amalgamated setts form a very valuable mining property of more than 100 acres, the two first-named being held under the Marquis of Westminster, for a term of about 22 years, at a royalty of 20s, per ton, the latter for the same period from Richard Williams, Esq., of Glyn Arthur, near Denbigh, at a royalty of 1-10th—there is no dead rent whatever. There are many well-known and celebrated lodes in this property, the principal of which form a junction at the southern portion of the sett, as shown in the plan, where also the Hundred Pound lode falls in.

Since the formation of the company the directors have been engaged in opening out these several mines. On the Victoria lodes they are sinking a new engine-shaft, which will be of great service in working the whole sett. From the Valentine lodes a cross cut has been driven north-west about 45 fras, at a level of 88 yards deep, which will come under the new engine-shaft at Victoria, and lay open the large reserves of ore reported to be there. This cross-cut has, in its course, interine lodes a cross cut has been driven north-west about 45 fras, and lay open the large reserves of ore reported to be there. This cross-cut has, in its course, interview of the proportion of the control of the con

tain the ore in greater quantities and more economically. This shalt is going down on a lode 3 yards wide, of a very promising character, and producing fine lumps of ore.

Since the month of April last the sales of ore have realised a profit, after providing for the working expenses thereof, sufficient to have paid a dividend on the present issued capital of the company (£4258), at the rate of about 20 per cent. per annum; but, with the view to develope the property and make it a good and lasting mine, the directors decided to expend the whole of this sum in the manner detailed in Capt. Wasley's report, which is appended.

The time having now arrived when it has become necessary to erect crushing machinery and dressing floors, the directors have resolved to issue 1000 shares (being part of the capital) to enable them to meet the additional outlay, and to carry on the work of the mine vigorously.

The mines are worked in the most economical manner, as no machinery is required for pumping, the whole of the water being carried away by swallows or natural cavities in the rock. The manager is so consident in the ultimate success of the mines that from the commencement of the operations he has taken, and still desires to take, his salary in paid-up shares. The largest shareholder in the company live close to the mines, and gratuitously acts as purser.

The appended reports from Capt. John Pryor and Capt. W. Wasley enter fully and testals, and attest to the great present and prospective value of the property. An agreement, bearing date the 10th of January, 1872, was entered into between company, of the other part, for the purchase of the above property for £400, to be paid (1500) in cash, and the sum of £2500 in fully paid-up shares of the company. Applications, accompanied by the deposit of 198, per share, may be made on the form accompany, in the professor of the company.

Applications, accompanied by the deposit of 198, per share, may be made on the form accompanying the prospectus to the bankers, or at the offices

# ment is made the deposit win or remaining the ment is made the deposit win or remaining the first state of the first state of the ment is made these mines. I believe it is

Agreeably with your request, I have again inspected these mines. I believe it is ow about 12 months since I had the pleasure of doing so before, and in my report went fully into the various points of operation, which I do not think it will be seessary for me to detail again in this. I will, therefore, confine myself briefly o your now important operations, viz.:—
First—The St. Luvrence New Whimsey-Shaft: This shaft is down 46 yards from he surface, the bottom of which has intersected the well-known Hundred Pound ofe. This lode has produced in former times many hundred Ions of ore. At the iont of intersection the lode is very large; in fact, too large to be productive; but a depth is attained the lode is becoming much more close and more likely to be me productive. The footwall side of the lode is hard, but for 8 or 10 in. In width n the hanging side there is very nice ore-producing ground, although at present our. About 8 or 8 yards deeper sinking will bring this slaft down sufficiently lode. This lode has produced in former times many hundred tons of ore. At the point of intersection the lode is very large; in fact, too large to be productive; but as depth is statimed the lode is becoming much more close and more likely to become productive. The footwall side of the lode is hard, but for 8 or 10 in, in width on the hunging side there is very ninking to sproducing ground, although at present poor. About 6 or 8 yards deeper sinking will being this shart down sufficiently deep to communicate with the level being new driven test from the \$2 at the \$3. Lawrence Whitnesy-Shaft. When this communication is effected it will enable you to develope the mine to much greater advantage. The lodestuff will the bebrought direct to surface, thus effecting a saving of the time and money, and, which is most important, it will thoroughly ventilate the whole mine.

The \$2 east out of \$4. Lawrence Old Whitnesy Shaft: This end is, in my opinion, within a few yards of being far enough to be under the shaft now being sunk upon the Hundred Pound lode; the ground in which this end is in, at present, is of a highly promising character, producing some very nice stones of ore, and believe if extended in the present direction a few yards you will meet with a further involved strongly recommend you to continue the driving of this level on the course of the lode, and as soon as the new shaft is connected with the \$2 yard level east no better trial could possibly be made than to continue the sinking of this shaft for another 20 or 30 yards; this would bring you into the proper depth in which all our lodes in this neighbourhood become most productive.

At the Valentine part of the sett I should by all means recommend the clearing up of the old shaft, which would come down over the cross-cut in the 68 yard level, which would no doubt drain it, and enable you to drive on the course of the lode. Hamilton shaft is splendidly situated for the theorough development of this section of the sett.

ion of the sett.

In conclusion, I have no hesitation in remarking that I consider you have a ve aluable take, and if the before-named suggestions are carried out, you will, hink, be handsomely rewarded for your outlay.

JOHN PRYOR.

### Report by Capt. WILLIAM WASLEY, dated 25th November, 1873.

Since the commencement of operations we have sunk Hamilton's shaft 32 yards from surface, cut lodge at the bottom, and driven a level from the bottom of the shaft to Victoria shaft, which will ventilate the whole of the workings, but the water was os strong for the barries that we were colliged to stop this part of the mine, although the lodes and ground looked very promising for making large deceived from the details.

water was ostrong for the barrels that we were obliged to stop this part of the mater was ostrong for the barrels that we were obliged to stop this part of the mine, although the lodes and ground looked very promising for making large deposits of ore in depth.

At Valentine we have driven the 88 yard level cross-cut (all in hard rock) from Valentine lode to the lode running back to Hamilton's shaft, and driven on its course towards Hamilton's shaft 5½ yards, but after turning the corner the air got so bad, and the end being about two hundred yards from Valentine shaft, I thought it best to stop the driving for awhile, until the old shaft, which is already about 50 yards deep, be cleared up and sunk down near the end of the cross-cut (as shown on the plan). This would well ventilate the mine, and enable us to draw away the stuff much better, and drive the levels a great deal cheaper. I should strongly recommend that this shaft be cleared up and sunk down to the level, and the level driven to Hamilton's shaft, which would be 36 yards below the present bottom of the shaft, in sloing which I fully believe that very valuable runs of ore would be met with, and then sink Hamilton's shaft to the level, and work all the rich lodes dry known to be to the west of Hamilton's shaft.

At St. Lawrence we have cleared and repaired the winding and footway shafts to the best of the course of the lodes, and cut a good run of ore, from which we have raised over 50 tons; but, seeing that the run was some way from the shaft, and dipping below the level, and the air bad, I thought it best to stop working here, and put the men to sink a new shaft to come down a little way to the cast of the run, as the ore is dipping in that direction. This new shaft is now 45 yards/sleep, and is within about eight yards of being through to the level, and when it is holed it will well ventilate the whole of the workings, and we shall then be able to draw the stuff direct to surface; and, from the kindly appearances of the lodes, I fully believe we sha se engines, as, being a state and be more easily worked, or with better prospected as it deserves to be.

WILLIAM WASLEY.

#### and to pay the balance in respect of such shares, in terms of your prospectus, dated THE ANGLO-BOLIVIAN SILVER MINING COMPANY (LIMITED),

SOUTH AMERICA.

Registered under the Companies Acts, 1862 and 1867.

Capital £100,000, in 20,000 shares of £5 each, Deposit 10s, per share on application, and £1 on allotment. The balance, if required, to be called up: £1 los, in three months, and £1 at Six and Nine Months respectively.

Shareholders will have the option of paying up their shares in full, and upon which they will receive Seven and a half per cent. But it is expected that no calls will be requisite.

that no calls will be requisite.

DIRECTORS.

JOSEPH ALLEN, Esq., St. Mark's Square, West Hackney.
FRANCIS ELLIS, Belle Vue Road, Tooting.
CONSTANT MERTENS, Esq., Shipping and Insurance Agent,
Walbrook House, Walbrook, E.C.
G. J. MILLER, Esq., Clapham Rise, S.W.
JOHN HONEYWOOD TERRY, Esq., Boscobel Gardens, Regent's

Park.

BANKERS

1MPERIAL BANK, Lothbury, London, and its Branches.
SOLICITORS.

Messrs. KIMBER and LEE, 1 and 2, Great Winchester street Buildings, E.C.
RESIDENT MINING ENGINEER AT CARACOLES.
WILLIAM BRAY, Esq.

Messrs, LOVELOCK and H. W. WHIFFIN, 19, Coleman-street, E.C. THOMAS SPARGO, Esq.

224 and 225, GRESHAM HOUSE, OLD BROAD STREET, E.C.

THOMAS SPARGO, Esq.

OFFICES.

224 and 225, GRESHAM HOUSE, OLD BROAD STREET, E.C.

PROSPECTUS.

This company has been formed for the purpose of purchasing and working of silver mines in the rich mineral district of Caracoles, situated in the southern are of the Republic of Bolivia, in South America, at a distance of only 120 miles for the Pacific Coast in a direct line, but between 120 and 150 miles, according to the Pacific Coast in a direct line, but between 120 and 150 miles, according to the Pacific Coast in a direct line, but between 120 and 150 miles, according to the roads at present used.

"With regard to the silver mines of Caracoles, in the Republic of Bolivia, the following statement appears in the Valparaiso journal 'El Mercurio del Vapor de the 2nd ult. The correspondent by whom it is transmitted remarks: "The few reported may be of interest to show that Bolivia is once more commencing to present user fame as the greatest silver-producing country known.

The news from Caracoles is good, judging from positive results. According to correspondent, the quantity of ore deposited in the warehouse of the Descubridan Mines in a fortnight is not less than 1000 quintals per day, with an average standard of nearly 150 marks per box, or 64 quintals, each of 100 lbs. This ore belongs almost entirely to the lots got out in February.

The ore delivered from the other mines in the same region has amounted, during the fortnight, to 5000 quintals, with an average standard of nearly 130 marks per box, or 64 quintals, each of 100 lbs., received by various purchasing houses.

The quantity of ore now on hand at the different deposits at Antolagasta except 40,000 quintals. In the course of the present month there will be four strait steamers coming to embark ores, and an extra one, it is said, chartered by Menn. Dorado and Volckmar, will take 27,000 quintals."

The ore is at present conveyed to the coast in carts, but a railway is in course of construction from the excellent port of Megillones to Caracoles, under contrac

## ANALYSIS OF THE SILVER ORE SPECIMENS FROM THE DISTRICT. Brought over official to England by CAPTAIN WILLIAM BRAY, Engineer in Chief to this Company. "Laboratory and Assay Office, 25, Finsbury-place, E.C., Aug. 11.

"Certificate of assays of fifteen samples of silver ore, marked 'Bolivian,' forwarded by Capt. William Bray :--

		029.	dwts.	gra
No. 2, silver	Per ton	2,613	6	16
No. 4, ,,	**	7,023	6 5	16
No. 7, 11	2.2	4,738		17
No. 9, ,,	9.9	3,075		14
No. 13, ,,	2.0	6,533	6	16
No. 19, ,,		718	13	8
No. 19, gossan, silver	32	269	10	0
No. 9, ,, ,,	0.2	381	1	3
No. 22, Argentiferous galena-Lead, 47.5 per				
cent.; Silver	3.9	2,229	13	6
No. 2, , , , , , , , , , , , ,		7,164		8
Average of 15 specimens, as above	2.2	3,969	0	0
No. 8, silver	#1	4,156	16	16
No. 18, ,,	22	4,753	0	U
No. 20,		18,309	13	8
Second assay, No. 20		20,330	0	0
This is the average of two assays-Gossan				
from No. 20; silver		7,301		- 0

W. T. RICKARD, F.C.S., Assayer and Consulting Chemis."
Subjoined is a descriptive district report given by Capt. Bray, and may be sived as authentic and reliable documentary evidence of the "Descubridoras" after surroundings. And here it will be well to premise that the recent socializavements, the Governmental reforms and political relations which have been ablished in the State of Bolivla, and have angreened the value of her public well itself in England and on the Continent, ensure every adequate protection to capid needs in this country, labour at the same time being at a cheap standard as cadily available.

invested in this country, labour at the same time being at a cheap standard as readily available.

The following are particulars of five mines secured by the company, and place under the charge of Captain William Bray, a highly respectable English minig engineer, resident at Copiapo Chile:—

THE "PRUSIANA" MINE.—The lode shows itself throughout the entireset, with about 20 inches, angle 40° cast. In this mine there are two places in which wor is being carried on; the first, at the north part of the sett, has been proved it depth of about 8 fathoms, and is 1 foot in width. Two samples of ore, taken froe different places of the lode, produced on an average 60 cas, to the ton.

The south lode is sunk upon for several fathoms, it is well formed, with an average width of about 1 ft. 10 im, depth about 15 fathoms, an end being driven about the distance on the lode at this depth, the lode generally containing a good pecentage of silver, and occasionally stones of a superior quality, in proof of white one sample gave 980 cos, to the ton, and another sample 70 cas, the average of the lode depest point, and the average of four assays at distinct parts of the low 290 cos, to the ton.

Several lodes cross this sett, one of them being the famous lode of the "Xis Mine," celebrated for the superior quality and atundance of its orce, and when the content of the content of the part of the superior quality and atundance of its orce, and when the content of the content of the superior quality and atundance of its orce, and when the content of the content of the content of the superior quality and atundance of its orce, and when the content of the

this lode meets and falls into the Prusiana lode a great result may be expected. (See plan.)

"La Paz" MINE.—The lode in this mine has been sunk on to a depth of 11 fms. width of same about 1 foot, with an angle of 20° east; an assay made product 45 ozs. of silver to the ton. There are several lodes which cross this set, and which will be productive as the mine gets opened up.

"ELVIRA" MINE.—The mine is situated in a valley called "Quebrada Hood, distant from the Merceditas del Alto Peru Mine about 70 fms.; the lode runs abot 52° east, width of same 2 ft., composed of spar and lead, the country being of the nature for producing silver; the depth gained is about 4 fms. vertical; at a life more than 2 fms. the lode is heaved by a manto, and has been cut below that, in requiring a short cross-cut, and when taken will contain a good percentage for silve, as a sample of the lode at the 4 fathoms gave 50 ozs. to the ton.

Towards the north-cast part of the sett there is a stratum or manto on which is can been driven for about 13 fms., producing for the greater part of this tame good stones of silver ore; an assay of one sample gaves a percentage of 1400s. to the ton. This end or cross cut, by continuing, would intersect two well-knowledges with the continuing and the set there are a great many lodes while cross in different directions, at the intersections of which large deposits are large ably met with.

"CANDELARIA" MINE.—This mine is situated about 140 yards from the plate."

"CANDELARIA" MINE.—This mine is situated about 140 yards from the plate."

cross in different directions, at the intersections of ably met with.

"CANDELARIA" MINE.—This mine is situated about 140 yards from the public road of the valley called Quebrada Honda; the lode runs about 100 east, and from the surface to a depth of about 5 fms. vertical, judging from the extent of great opened, the ore must have been of a good quality, some of the refuse at surface with the surface of the refuse at surface in the surface of the surfa

Candelaria stine; which seek into and lead, an assay of which gave 64 on a silver to the tou.

As the ores are spalled and picked by hand, and no pumping has yet norest been found necessary in any of the mines worked at Caracoles, no costly machiner will be required.

Applications for shares to be made on the forms accompanying the prospetts and sent with a deposit of 10s, per share to the bankers, directors, brokers, solicits or secretary of the company.

The agreement for the sale of the property is made between William Bray, d Copiapo, in the Republic of Chili, South America, mining engineer, under gower of attorney, dated the 30th day of August, 1873, of the one part, and William White, of 25, Finsbury-place, in the county of Middlesex, Professor of Chembary, on behalf of the company, the other part.

The Memorandum and Articles of Association, and the titles under which the mines are held, together with contract and specimens of the silver ore, can be set the offices of the company, or the solicitors.

<sup>9</sup> A quintal=100 lbs. A mark=8 ozs., value £2, at 5s. per oz. A box (a cujon); 4 quintals: 27,000 quintals averaging 130 marks per box=£109,720.

ORIZONTAL ENGINES, of most approved construction, from 8 to 50 in. cylinder, for WINDING AND GENERAL PURPOSES.

Some good secondhand HORIZONTAL ENGINES ON SALE, single and in pairs, from 14 inches to 20 Inches cylinders, suitable for winding, &c. GOOD BOLLERS of all sizes. pairs, from 14 inches to 29 inches of inches of all sizes.

CREASE AND CO., 39, CONGREVE STREET, BIRMINGHAM.

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#### THE PANT-Y-MWYN LEAD MINING COMPANY (LIMITED).

Incorporated under the Companies Acts, 1862 and 1867 Capital £60,000, in 30,000 shares of £2 each,

Capital 200,000, in 30,000 shares of £2 each,
Of which 5000 are appropriated as hereinafter mentioned.

payments—10s. per share on application; £1 on allotment. The remainder
to be paid in calls as required.

There are already 31 shareholders in the immediate neighbourhood of the mines
holding 755 shares, and applications are still being made in the district.

Applications for the remaining shares to be made to the secretary, as under.

DIRECTORS,
JAMES CHANT, Esq., 3, Westminster Chambers, Victoria-street

JAMES CHANT, Esq., o, Treschilla, Broad-green, near Liverpool. JAMES YELLAND. Esq., Haydon-villa, Broad-green, near Liverpool. JAMES YELLAND. Esq., Pontesbury, Salop. THOMAS DAWSON, Esq., Necropolis, Liverpool. glCHARD WATERS, Esq., The Llan, Church Stoke, Montgomeryshire.

(With power to add to their number.)

BANKERS.

THE NORTH AND SOUTH WALES BANK, James street, Liverpool, and Mold Solicitor.

Samuel Peeling Brabner, Esq., 40, North John-street, Liverpool.

George Edward Holt, Esq., Union court, Castle-street, Liverpool.

Secretary.

EDWard Roberts, Esq., Commerce-court, 13, Lord-street, Liverpool.

Captain WILLIAM WASLEY, Vronheulog, near Mold.

This company is formed for the purpose of working an extensive and valuable ligeral property, extending over an area of about 1500 acres, advantageously mated in the parishes of Gwernaffield and Cilcen, within 2½ miles of the town Mold, in the county of Flint, and is surrounded by some of the richest mines in grainely. The setts are held under leases for the usual term of 21 years at incipality. The setts are held under leases for the usual term of 21 years at tecenth royalty, and an agreement has been entered into under which the of these properties, together with all whims, buildings, &c., on the land are ed in consideration of an allotment of 5000 fully paid-up shaces, and £600 in In the "Modlen" sett, a winze now being sunk in the bottom of the adit now worth 3 tons of ore per fathom, and going down in new ground. agents report in "Mining Correspondence."

#### WHEAL BARNARD SILVER, TIN, AND COPPER MINING COMPANY

(LIMITED) Capital £25,000, in 25,000 shares of £1 each. Fully paid-up. No further liability.

Bankers-WEST OF ENGLAND BANK, Tavistock. SOLICTIOR-H. LUXTON, Esq., Tavistock. SECRETARY-Mr. THOS. J. BARNARD, 4, Abbey Mount, Tavistock.

ABRIDGED PROSPECTUS.

ABRIDGED PROSPECTUS.

This valuable property is replete with extensive machinery, including a powerful 36 in. rotary engine, with all attachments, 360 ft. pumps fixed to the bottom
of the copper and tin shaft, 12 heads stamps, exicining furnaces, buildings, amalgunation mill entire, buddles, silver and tin dressing floors, and tools and matraids generally required in the laying out of a successful mine, which is now in
situal work, and in a position to make immediate returns from the silver, tin, and
esper positively discovered, and now being raised to surface for the new and imperant process, the patent of Mr. Thos. J. Barnard, and of which this company
sill sequire the right to use the same free of royalty or charge.

A powerful crusher is being attached to the engine, and precipitation works laid
at on an extended scale. The tin and copper lodes average 20 to 35 per cent.
geneic, 2 to 3 per cent. copper, 20 to 40 lbs, tin, and 8 to 12 ours a silver per ion of
staff, and treated by Mr. Barnard's process will result in great profits.

The leases, machinery, and plant, and the whole of the property entire, will be
old, as per Articles of Association, for 17,599 fully paid-up shares, and £3000 in
ab, the company to pay all expenses of working the mine since it was re-started.
February 28th, 1873, including preliminary expenses, registration fees, &c., and
presented money for all minerals sold since that date, and become the possessors
of the ores and minerals already raised to surface. The buildings and plant alone
could not be replaced for £6000, and the proprietary agree to replace 12,500 of the
1,500 free shares to an account to be called "commission account," to be offered
and presented to those who first come forward in assisting with capital to develope
the property.

The hest general meeting of the shareholders will take place at the count-house,

rity, a general meeting of the shareholders will take place at the count house mine, on Wednesday, December 17th, 1873, at Three P.M., when director ested from the general body of shareholders,—a favourable opportunity be presented for visiting the property, as it is confidently expected that before that date the works will be in full operation, and by the day of the country of the property of t reatment of a combination of minerals already discovered. forms of application for shares can be obtained of either th or Solicitor.—October 23rd, 1873.

#### Begistration of New Companies.

The following joint-stock companies have been duly registered:-

The following joint-stock companies have been duly registered:—
FLOUR MILL COLLIERY (Limited).—Capital 12,000l., in 50l. shares. It purchase the Flour Mill and Ellwood Collieries, in the Forest of Bean. The absentiers (who take one share each) are—Francis Parry, in., United Service lab: F. Parry, 19, Wesbourne-terrace; G. D. Budd, Randolph-road, Maida Hill; W. H. Holyland, Butter's Green, Hayward's Heath; J. H. Head, 90, Cannon-meet; Julius Goldsmid, 49, Grosvenor street; W. D. Gooch, 4, Park-place Villas. PATENT VICTORIA LANDAULET CARRIAGE AND CAB COMPANY Limited).—Capital 100,000l., in 8l. shares. To acquire patents for improvements at the manufacture of carriages, &c. The subscribers (who take one share each) re-William James, 34, New Broad-street; A. Herring, 24, Ludgate hill; W. R. William James, 34, New Broad-street; A. Herring, 24, Ludgate hill; W. R. William James, 34, New Broad-street; A. Herring, 24, Ludgate hill; W. R. Allan's Hayward-broad; G. S. Lobbam, Wesleyan-place, Eligipate; and J. C. Heslop, Charles-street, Long Acre.

ALLAN's PATENT TELEGRAPH CABLE COMPANY (Limited).—Capital 100,000l., in 10l. shares. To acquire and work an invention for improvements aubmarine ables. The subscribers (who take one share each) are—Richard barmouth, Lavender-hill, Wandsworth; Robert Smith, 32, New Broad-street; grey Wood, Regent-street; J. S. Christopher, John-street, Belford row; J. F. ackersten, 3, Lombard-court; Charles Trotter, Park-road, Regent's Park; and P. Lawsuy, Nelson-square, Blackfriars.

LONDON MUTUAL COAL ASSOCIATION (Limited).—Capital 50,000l., 1l. shares. To carry on business as coal owners and merchants. The subscribers who take one share each pare—Hollo-

NDON MUTUAL COAL ASSOCIATION (Limited).—Capital 50,000c, hares. To carry on business as coal owners and merchants. The subscribers ake one share each) are—John Hawkins, Tavistock terrace, Upper Hollo-C. R. Lorant, 39, Fitzroy-square; James Parker, Boyson road, Walworth; Smith, Little Stanhope-street, W.; F. W. Gittens, High-street, Camden C. Richards, Berkeley-road, N.; and G. S. Izalous, Hampstead. LILIAM ARNOLD AND COMPANY (Limited).—Capital 100,000/c, shares. To carry on the business of boilermakers and ironfounders. The Burst are—Thomas Allen, Leeds, 60; Richard Fletcher, Bradford, 60; R. Behel, Grantham, 40; Henry Bray, Nottingham, 40; Thomas Lewian, Notme, 39; John Furness, Huddersfield, 10; and J. Warrington, Booth street, and, 40.

WERNPISTILL COLLIERY COMPANY. - Capital 100,000l., in 5l. shares re a colliery company at Briton Ferry, Glamorganshire. The subscribers e one share each) are—H. L. Lamotte, St. Michael's House; P. F. Holden, acl's House; F. A. Rogers, Alsen-road; E. P. James, Kentish Town-road; ter, Great Saint Helen's; G. S. Warrington, I, Gresham Buildings; F. ight, 9, New Bridge-street.

H AND SOUTH WALES BANK.—Constituted by Deed of Settle-1836, is now incorported as an unlimited company.

ROCK DRILLING APPARATUS.—According to a recent patent of MILLING APPARATUS.—According to a recent patent of MONT, of Westminster-chambers, a number of rock drills operating by tion, are all worked by one single slide valve detached therefrom, and e ports of all the drill cylinders by flexible or jointed pressure pipes, e motion of the slide valve the air or gas under pressure is admitted by to, and exhausted simultaneously from, all the drill cylinders. The on of the drills at each stroke is effected by a small air cylinder, sup-ie pressure pipes, actuating a ratchet in gear with a ratchet wheel on the drill pixton passing through the back end of the drill cylinder. The ion of the drill cylinder, as the boring proceeds, is effected by a curved so on the said sed from the nitron of the contraction of the contraction. one the drill piston passing through the back and of the drill cylinder. The motion of the drill cylinder, as the boring proceeds is effected by a curved of control to the piston, actuating a ratchet in gear with a wired, carried by a bracket from the drill cylinder, and fitting with a female nafixed screw spindle. This screw spindle is provided with a hand-wheel hit can be rotated for drawing back the drill cylinder after the boring has upleted.

see completed.

MARING AND SORTING COAL AND MINERALS.—The characteristic stars of the invention of Mr. M. Everare, of St. Etienne, Loire, is the removal rom a charge of coal, after it has been emptied into a deep vessel, the bottom of disch is moveable and perforated, of all the various components of the same, various size as well as in quality, without any loss or waste whatever. To obtain this smit the charge is first acted on by an ascensional and intermittent current in sler to drive all the fine particles to the top, then graduated fluctuations of the issualtest in order to sort the qualities. The slimy portions are next allowed to some deposited during an interval of rost, which varies from two to five minutes, coording to the nature of the coal. Lastly, the washing table is raised up to the situes of the vessel in order to effect the selection and removal of cach quality.

THE NERVES CONVEY TO HEALTHY HUMANITY all that is satisfied.

THE NERVES CONVEY TO HEALTHY HUMANITY all that is satisfisted and enjoyable between the inner self and the outer world. Weak nerves wart death for deliverance from intolerable miseries; neglect augments the growing exit; more serious symptoms soon set in; the stomach becomes disordered; more or less feverish signs appear, followed by less of appetite, strength, and energy. As a counteracter of these terrible trials it is only necessary to take modetale doses of Holloway's pills, which purify the blood, and give a healthy action to he with functions. Under their potency strength supersedes weakness, and the mierable dyspeptic who shudders at the sight of food may dine well without fear, and enjoy the pleasures of the table without apprehension.

#### AMERICAN IRON AND STEEL ASSOCIATION.

Since it is the Americans that we must naturally regard as our principal future competitors in the iron markets of the world, it behoves to watch with the utmost care the progress making by the iron and steel manufacturers on the other side of the Atlantic, not with any improper or exaggerated feelings of jealousy, but in order that we may be enabled to continue to occupy the foremost position, whatever may be the magnitude of the improvements by which they seek to rival us; and as the American Iron and Steel Association may be fairly relied upon as affording a thorough reflex of the posi-tion of the siderurgic industries of the New World, it is essential that British ironmesters should know what was done at the meeting of that society just concluded. The meeting, although not, perhaps, so fully attended as could have been desired owing to the short noso fully attended as could have been desired owing to the short notice given, was attended by representatives of most of the leading manufacturers, and by the principal scientists devoting themselves to mettalurgical questions. The president—Mr. Samuel J. Reeves—proved himself in every way worthy of the position he was called upon to occupy, and his address was a highly interesting one. Referring to the relations of the United States with Europe in the supply of iron and steel, he said they had now passed the point of dependence; they were now independent of the whole world. They had the skill, the ores, the coal, and the capital. If there be no adverse legislation by Congress they will be able from this time forth to supply their own demand for iron and steel of every description, and to export those articles to their neighbours. They now make to supply their own demand for iron and steel of every description, and to export those articles to their neighbours. They now make all kinds of pig-iron except spiegeleisen, and will ultimately be enabled to dispense with its importation. An agent for the sale of railroad iron in New York city has acknowledged that his business in the United States in the sale of English iron and steel rails is at an end if their tariff laws remain as they now are. He observed that their coal supply causes them no anxiety; they have scarcely begun to scratch at their great deposits, and a century will roll by before they feel the necessity to economise in the use of fuel. The proposed visit to America of the British Iron and Steel Institute was very pleasantly referred to. He hoped the Association would welcome the visitors warmly, and endeavour by all the means in their power to give them a proper impression of the greatness of the iron industry of the country. The iron interests of the country are so vast that, if united, their action would always be respected by the entire nation, and the labour of protecting themselves would thereby be greatly lessened. They could then advance in solid column, with an unbroken front, without fear of danger from external opposing forces.

forces.

The statistical report prepared by the secretary, Mr. James M. Swank, was an able and exhaustive one; he remarked that with the close of the Franco-Prussian war the European demand for iron to repair the waste of the war, to compensate for decreased iron production during its continuance, and to facilitate railroad construction very greatly increased. The demand from all causes was fed by the abundant capital which had been let loose at the close of the war, and now sought investment. In the United States the fever for building railroads, added to other causes influencing the European market, produced an extraordinary demand for iron in 1871. The Americans built over 7000 miles of railroad in that year, and they needed iron for ships, bridges, architectural work, and all the other purposes to which an inventive and prosperous people could adapt it. The rise in iron began in the latter part of 1871, and the rise in coal during the following winter. Simultaneously with these advances, the British coal and ironstone miners and the iron-workers renewed the agitation for an advance in wages, and they these advances, the British coal and ironstone miners and the ironworkers renewed the agitation for an advance in wages, and they were generally successful. The result was inevitable. The colliery proprietors still further advanced the price of coal, and the iron-masters still further advanced the price of iron. The supply became unequal to the demand, although production was everywhere stimulated. In the United States 40 new blast-furnaces were erected, and the erection of others was undertaken, the foreign demand for British iron and the increased cost of producting that iron leading

and the erection of others was undertaken, the foreign demand for British iron and the increased cost of producting that iron leading to the reasonable presumption that the Americans would now be able to possess their own iron markets.

At present, however, stocks of pig-iron are accumulating in many districts for which there is no sale at any price. Most of the bar and rail mills that are now running are working on short time. Rail-mills especially are bare of orders, with no immediate prospect of a change for the better. The plate-mills are more favoured. Thousands of ironworkers at the beginning of winter are out of employment, while a large proportion of those who are yet employed have accepted a reduction of wages averaging 15 per cent. The mining of iron ore has sympathised with the prostration of the iron trade. The crisis, however, and the conditions which preceded it, have produced one result which will reach into the immediate future, and which all men may easily comprehend: the home production of all kinds of iron will be equal to the home demand, under any circumstances, for some time to come.

The production of pig-iron in the United States in 1872 was 2,830,070 net tons, or 2,526,848 gross tons. This quantity was produced in 21 States. The ascertained production during the first six months of 1873 was 1,393,075 net tons, and the estimated production for the whole of the year 1873 is 2,695,434 net tons, or 2,406,637 gross tons. The number of States which made pig-iron this year was 22—Maine having re-entered the list after a long rest. The excess of production in 1872 over the estimated production of 1873 is 134,636 net tons. If the financial crisis had not occurred, the production of 1873 would have exceeded 3,000,000 net tons. The estimated annual canacity of the production of 1873 would have exceeded 3,000,000 net tons. The estimated annual canacity of

If the financial crisis had not occurred, the production of 1873 would have exceeded 3,000,000 net tons. The estimated annual capacity of all the furnaces in the United States is 4,371.277 net tons. The total number of furnaces in the United States, exclusive of abandoned and

number of furnaces in the United States, exclusive of abandoned and projected furnaces, is 636. The total number of new furnaces finished and put in blast in 1872 was 41; finished and put in blast in 1873, 42; total number of new furnaces put in blast in the last two years, 83. Many of these are among the largest in the country. Pennsylvania still retains her position at the head of the States making pig-iron. The total number of net tons of iron and steel rails made in the United States in 1872, as reported by the makers, is 941,962, or 841,064 gross tons. This aggregate, was produced in 16 States. Pennsylvania made 419,529 tons, or 44½ per cent. of the whole. Ohio comes second in the list, taking the place which Illinois held in 1871. Illinois is the third State in the list, and New York the fourth. The production of rails in the United States in 1871 was in 1871. Illinois is the third State in the list, and New York the fourth. The production of rails in the United States in 1871 was 775,739 net tons; in 1872 it was 941,992 tons: increase, 166,259 tons, or 21½ per cent. The importation of foreign rails in 1871 was 566,202 net tons; in 1872 it was 530,850 tons: decrease, 35,352 tons, or 6½ per cent. The net gain of the American railmaker in 1872 over his foreign rival was, therefore, 201,611 net tons. Of the total production of 941,992 net tons of rails in 1872, 94,070 tons were Bessemer steel rails. In 1871 there were produced 60,042 net tons of steel and steel-headed rails; increase, 34,028 tons, or 56% per cent. Of the 530,850 net tons of rails imported in 1872, 149,786 tons were steel rails. The total consumption of iron and steel rails in 1871 was 1,341,935 net tons; in 1872 it was 1,472,842 tons: increase, 130,907 tons. This increased consumption was more than equalled by the increased production of American mills, which was 166,259

130,907 tons. This increased consumption was more than equalled by the increased production of American mills, which was 166,259 tons, as above stated. During the year 1871 the export from the United States of American railroad bars and rails was 306 net tons; during 1872 the export was 1296 tons; increase, 323 per cent. An estimate of the production in 1872 and 1873 of the merchant bar, plate, and other rolling mills, inclusive of rail mills, shows that in the former the production was 1,941,992 net tons of rolled iron, against, probably, 1,830,000 net tons in the latter. Further, there were produced in the United States in 1872 about 32,000 net tons of cast steel, and in 1873 there will be produced about 28,000 ross. In 1871 there were converted 45,000 net tons of Bessemersteel; that in the former the production was 1,941,992 net tons of rolled iron, against, probably, 1,830,000 net tons in the latter. Further, there were produced in the United States in 1872 about 32,000 net tons of cast steel, and in 1873 there will be produced about 28,000 tons. In 1871 there were converted 45,000 net tons of Bessemer steel; in 1872, 110,500 tons; and in 1873 it is estimated that there will be converted 140,000 tons. About 85 per cent. of the Bessemer steel that is now converted in American works passes into rails. The total quantity of pig metal converted by the pneumatic process in 1872 was 125,361 gross tons. During the first nine months of 1873 the total quantity of pig metal converted by the pneumatic process in 1872 was 125,361 gross tons. During the first nine months of 1873 the total quantity of pig metal converted by the Pneumatic process in 1872 was 125,361 gross tons. During the first nine months of 1873 the total quantity of pig metal converted by the pneumatic process in 1872 was 125,361 grant of the 1873 the total quantity of pig metal converted by the pneumatic process in 1872 was 125,361 grant of the 1873 the total quantity of pig metal converted by the pneumatic process in 1872 was 125,361 grant of the 1873 the total quantity of pig metal converted by the pneumatic process in 1872 was 125,361 grant of the 1873 the total quantity of pig metal converted by the pneumatic process in 1872 was 125,361 grant of the 1873 the total quantity of pig metal converted by the pneumatic process in 1872 was 125,361 grant of the 1873 the total quantity of pig metal converted by the pneumatic process in 1872 was 1874. With 1874 the production of the 1874 the 1874 the production of the 1874 the 1874 the 1874 the production of the 1874 the 1874 the 1874 the production of the 1874 th

to estimate the extent to which its production will be carried in future years, but we hear of one new enterprise in its manufacture having been inaugurated this year. The total annual capacity of

having been inaugurated this year. The total annual capacity of the eight Bessemer works now in operation is about 170,000 net tons of rails; to which add Edgar Thomson, and new plant of Pennsylvania Steel works, now constructed, and the total capacity of the Bessemer works of the United States at the close of 1874 may be placed at 220,000 net tons of rails.

Summarising the results thus arrived at, it will be found that the ascertained and estimated production for 1872 and 1873 was—Of iron and steel rails, 941,992 tons in the former year, against 350,000 tons in the latter; of other rolled and hammered iron; 1,000,000 tons, against 980,000 tons; of forges and bloomaries 58,000 tons, against 26,000 tons; of forges and bloomaries 58,000 tons, of Bessemer steel 110,500 tons, against 140,000 tons; of Siemens-Martin steel 3000 tons, against 3500 tons; and of pig-iron 2,830,070 tons, against 2,695,434 tons. During the year under review No. I charcoal pig-iron has been shipped from Lake Superior to Great Britain. Iron of this quality is essentially necessary in the manufacture of certain iron products; but, owing to the cutting down of some of their forests, and the absorption of others by the gentry, England and Scotland now manufacture but a small quantity. There is but one charcoal furnace now in blast in Great Britain. It is remarked that English and Scotch founders have of late made some is but one charcoal furnace now in blast in Great Britain. It is remarked that English and Scotch founders have of late made some advances towards the adoption of the American method of making advances towards the subject of the best problem. advances towards the adoption of the American method of making car-wheels, which requires charcoal pig-iron of the best quality. It may be possible that these founders will hereafter require a part of the American product for this purpose. But this demand would be entirely exceptional, and could not be regarded as at all affecting the general proposition that the United States cannot compete with the United Kingdom in its own markets for its own iron supply. It is thought io be more proble that the Lake Superior pigiron which has been taken to England has been purchased at a loss, with the view of inducing the makers of Swedish pig-iron to lower their prices.

their prices.

The remainder of the proceedings were of the usual business chatheir prices.

The remainder of the proceedings were of the usual business character, and, therefore, chiefly of local interest. The financial position of the Association is highly satisfactory, the credit balance amounting to \$11,256, and the Association seems to be altogether in a very prosperous condition. The protectionist feeling appearsstill to predominate, and is well represented in the observations of the Hon. D. J. Morrell, who remarked that the American supply of steel rails is now equal to the demand, and they will be able to control their own markets hereafter if prices in England do not so greatly recede that her manufacturers will be able to ship steel rails to the United States. In view of this possible event protection must still be continued. Amongst the resolutions passed was one to the effect that the Association had learned with great satisfaction that the members of the Iron and Steel Institute of Great Britain propose to visit America next year, for the purpose of ascertaining the extent and progress of the iron and steel industries of the United States, and that the members of the Association will extend to them a hearty welcome, and will take pleasure in showing them their several works, and in otherwise aiding them to accomplish the object of their visit. The meeting, which must be regarded as in every respect a very successful one, was soon afterwards adjourned until the first Wednesday in February, and it was resolved that the other iron associations be requested, through their secretairies, to meet with the Iron and Steel Association in joint convention on the following day.

#### THE IRON ORES OF SANTANDER, SPAIN.

The formation of an English company for the development of several important iron deposits around the Bay of Santander, in the North of Spain, attaches an interest to the reports of the engineers who have examined the properties which it is proposed to work. It is very truly remarked that for many years the Spanish hematite ores have been favourably known in this country, and ironmasters are daily becoming more alive to the necessity of seeking supplies from the Spanish mines, as it is a fact well known to all interested in the iron trade of this country that the supply of iron ores in Great Britain is far short of the demand. The position of this property, its close is far short of the demand. The position of this property, its close proximity to the sea, with railway adjoining, the excellent facilities for shipping the ores in one of the finest bays on the coast—that of Santander—and the increasing demand for this ore, are referred to as combining to render it one of the most valuable investments that have ever yet been offered to the public; and as the company—the—Santander Iron Ore Company—which has been formed with acapital of 80,000%, in shares of 10% each, has arranged that the purchase consideration shall compist entirely of shares and dependen

have ever yet been oftered to the public; and as the company—the
—Santander Iron Oric Company—which has been formed with
acapital of 80,000%, in shares of 10% each, has arranged that the purchase consideration shall consist entirely of shares and debenture
bonds of the company, and no payment whatever has been made to
promoters; the company is considered to stand in an unusually
favourable position for commanding the support of capitalists.
Samples of the iron ores and manganese assayed by Messrs. Johnson,
Matthey, and Co., gave from 59½ to 63 per cent. of metallic iron, and
93°25 per cent. of proxide of manganese. The iron ore contains a
very small proportion of sulphur, and mere traces of phosphorus.

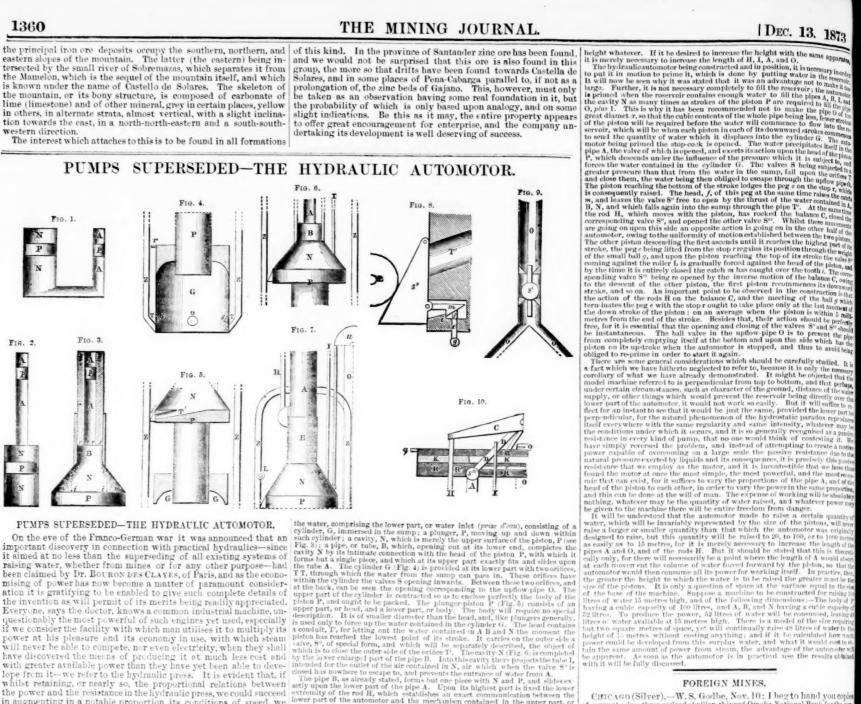
The iron ore, pyrites, and zinc mines, which form the whole of
the first or Maliano group, are contiguous the one to the others,
without any disconnection. They occupy nearly entirely the Peninsula of Maliano, which is limited to the north by part of the bay of
Santander; to the south by the river of Maliano, which comes from
Boo, and carries vessels of from 300 to 400 tons burden; to the east
by the principal channel of the Bay of Santander facing the Lazareto;
and, lastly, to the west by the railway, at about 500 metres distance
of the first station (Boo, at 7½ kilometers from Santander). The
principal channel to the east admits vessels of every dimension, but
to reach it would be necessary to connect the Island of Paloma with
the Sierra by a small high road of about 40 metres on the rocky
foundation, and establish a wooden shipping jetty from the east
extremity of the island to the channel, a length of from 40 to
50 metres, and then ships might be loaded afloat, being 8 to 10 metres
in depth, if required. This group comprises five mines, the first,
second, and fourth (Resguardos, Sava Rosa, and Santa Carolina) containing together 225 hectares, and concessions have been applied for
with respect to 260 hectares adjoining. Mr. Ratier, by whom the
property has been inspected, estimates that the iron ore is

cent. This bed should be very interesting, as I has shown itself under a width of from 8 to 10 metres, and it appears to cross from north-east to south. The whole of the Peninsula of Maliano crosses, without doubt, at a considerable depth the principal bed of pyrites, which would thus become of great importance. It would be advisable to make borings there. A similar bed is worked largely at a small disconsiderable results of the control of the state of the control of make borings there. A similar bed is worked largely at a small distance, and on the same conditions, which has given considerable results. Zing has also been discovered elsewhere in the concessions, for Mr. Ratier explains that the whole part north-west and south-west of the Mine Venera second, which, as we have said, is nearly contiguous to the three mines of Muriedas, includes the spot called La Pandara de Reseibla, Venta le Verde, &c. Now, at about 100 metres to the east of this last point there has been discovered a bed of zinc calamine unblended with some portions of galena. There some

the principal iron ore deposits occupy the southern, northern, and eastern slopes of the mountain. The latter (the eastern) being intersected by the small river of Sobremazas, which separates it from the Mamelon, which is the sequel of the mountain itself, and which is known under the name of Castello de Solares. The skeleton of the mountain, or its bony structure, is composed of carbonate of lime (limestone) and of other mineral, grey in certain places, yellow in others, in alternate strata, almost vertical, with a slight inclination towards the east, in a north-north-eastern and a south-south-western direction. western direction.

The interest which attaches to this is to be found in all formations

#### PUMPS SUPERSEDED—THE



PUMPS SUPERSEDED—THE HYDRAULIC AUTOMOTOR.

On the eve of the Franco-German war it was announced that an important discovery in connection with practical hydraulics—since it aimed at no less than the superseding of all existing systems of raising water, whether from mines or for any other purpose—had been claimed by Dr. Bourdon derection with practical hydraulics—since it aimed at no less than the superseding of all existing systems of raising water, whether from mines or for any other purpose—had been claimed by Dr. Bourdon derection as will be superseding of power has now become a matter of paramount consider. The claimed by Dr. Bourdon derection it is gratifying to be enabled to give such complete details of the invention as will permit of its merits being readily appreciated. Everyone, says the doctor, knows a common industrial machine, unquestionably the most powerful of such engines yet used, especially if we consider the facility with which man utilises it to multiply its power at his pleasure and its economy in use, with which steam will never be able to compete, nor even electricity, when they shall have discovered the means of producing it at much less cost and will never be able to compete, nor even electricity, when they shall have discovered the means of producing it at much less cost and with greater available power than they have yet been able to develope from it—we refer to the hydraulic press, we could succeed in augmenting or nearly so, the proportional relations between the power and the resistance in the hydraulic press, we could succeed in augmenting in a notable proportion its conditions of speed, we should have a motor at once the most powerful, the most economic, and the least angerous in the hydraulic press, we could succeed in some even electricity, which is precisely of this problem that the hydraulic press, we could succeed the content of the proportion of making of the proportion of the hydraulic pres

which there can move two perfectly fitting pistons, P and p. The closed space be tween these two pistons is exactly full of water. Suppose that the horizontal section of A, and, consequently, that of the piston p be equal (relatively to the unit of measure) to a, and that of N and of  $P=a\times z$ . It, now, we apply on the upper face of the piston p as pressure equal to the unit of weight, the piston P will be pushed upward in the cylinder N, with a force equal to as many times that which acts upon the piston p, as the section of p is contained in that of P a number of times equal to z, the force exerted upon p is contained in that of P, as p is P. But the piston p will descend on the cylinder A, or the piston p will descend on the cylinder A to the distance v, which will be z times the distance v, which the piston P will rise simultaneously in the cylinder N, and we shall have for the relative speed in V:v.: P.:p.::ax:a. The formulæ for the primitive nydraulic press are, therefore, as to power, g: G:: pP, whence the time lost to produce a certain pressure with the hydraulic press. These details, although not generally known, must not be lost sight of; we shall see the application hereafore.

hence the time lost to produce a certain pressure who are all years at tails, although not generally known, must not be lost sight of; we shall see their upliention hereafter.

If now we monify the position of the parts in Fig. 1, and give them the position lown in Fig. 2, it is clear that we change nothing from what has been said, and sat the result would remain identically the same. It will, of course, be undersood that in all that has been stated no account has been taken of either friction; weight. Now let us again modify our hydraulic press, and construct it as in ig. 3. In this fresh modification A and N are independent of each other, A is seed immovably to some resisting obstacle place hear the apparatus, and N is oveable. The piston P, N, and a new cylinder B, which slides like a telescope be upon and stops A, forms a single piece. A well-known physical apparatus, and to Du Habiat—designed for the verification of the hydrostate paradox, aparently demonstrates experimentally that this new modification of the hydraulic test is perfectly correct, theoretically and practically. However, we must say that uperfence has proved that this exactitude is not perfect, for from a theoretical ont of view, the pressure which acts on the head of P, which is here the base of int of view, the pressure which acts on the head of P, P, hich is here the base of int of view the interior section of B: but the sides de of N are no longer a horizontal prace, but form the wall of a cone, and consequently an inclined plane. To our struit of the production of the product of the hydrostatic paradox is on the head of P, which is here the base of cone, but the way, that from a theoretical point of view the hydrostatic paradox is on the seatile plane. The new paratus of Du Haldat since the pressure varies with the since of the angle m. From practical point of view, iet us at once observe that the above theory is not contributed and the product of the product of the above theory is not contributed and the product of the product of the a acting like a stretched spring, and which results in an action upon a point, and a reaction, equal and inverse, upon a fixed point. In Fig. 3 ble point, or seat of action, is P; and the fixed point, or seat of reaction tness r, t, of the lower wall of A.

Z, which are fixed by their lower extremity to the base of G, in order to prevent it to least movement of A and G. The valve S' (Fiz. 3) as an beesen, istringular, its back being oblique with regard to the faces which it against the head of the piston P, to which it is hinged. Passing into an opening in the arm Z by the sile of it, and which is doubled for that purpose for the length of the stroke, the indicated of it, and which is doubled for that purpose for the length of the stroke, the indicated in the stroke of the stroke o

the moveable point, or seat or action, is P; and the fixed point, or seat of reaction is the thickness r, s, of the lower wall of A.

In this latter modification of the hydraulic press (that in Fig. 3) we have precisely the hydraulic automotor, and it is easy to understand that the problem proposed is solved, for we conserve almost all the power which the hydraulic press places at our disposal, and our proportion G:g::P:p is always very closely verified; but with regard to speed we make a great and very important step, for our proportion V:v::P:p becomes V:v::section of B:p; that is to say, that P may descend a distance equal to V our piston p will only have to descend a distance equal to V our piston p will only have to descend a distance equal to V our piston p will only have to descend a distance equal to the apparatus, they comprise the pipes a fact that the section of B is p; that is to say, that P may descend a distance equal to V our piston p will only have to descend a distance equal to V our piston p will only have to descend a distance equal to the apparatus, they comprise the pipes a fact that the proportion V:v::P:p becomes V:v::section of B:p; that is to say, that P may descend a distance equal to V our piston p will only have to descend a distance equal to V our piston p will only have to descend a distance equal to V our piston p will only have to descend a distance equal to V our piston p will only have to desire it was the hottom they serve as a point of support, and the whole pressure is exerted against the thickness of the wall of the lower part. There must, therefore, be a certain thickness, but it must not be forgotten that the thickness should be great enough to offer a sufficient hold to the arms Z, which are in reality bring about, from whatever point of view it may be regarded, since, as matter how great (without working expenses), and, consequently, the creation of the machine, and since restrict continuous currents of water on the most elevated arid plateaux i.

With regard to the con each of the construction of the hydraulic automotor, it is composed escaped by a pull, and not a thrust. There is, also, an advantage is merely a pull, and not a thrust. There is, also, an advantage is merely a pull, and not a thrust. There is, also, an advantage is merely a pull, and not a thrust. There is, also, an advantage is merely a pull, and not a thrust. There is, also, an advantage is merely a pull, and not a thrust. There is, also, an advantage is merely a pull, and not a thrust. There is, also, an advantage is merely a pull, and not a thrust. There is, also, an advantage is merely a pull, and not a thrust. There is, also, an advantage is merely a pull, and not a thrust. There is, also, an advantage is merely a pull, and not a thrust. There is, also, an advantage is merely a pull, and not a thrust. There is, also, an advantage is merely a pull, and not a thrust. There is, also, an advantage is merely a pull, and not a thrust. There is, also, an advantage is merely a pull, and not a thrust. There is, also, an advantage is merely a pull, and not a thrust. There is, also, an advantage is making the pipe O of small diameter, the object of which will be seen when con it is in the 45, east of 4ddis a shift, containing stones of one. The lowest by the denough to the system through the same indicates, is intended to plunge is making the pipe O of small diameter, the object of which will be seen when con identified the system of the same, as in thrust, and are all diameter, the object of which will be seen when con identified the system of the same, as an advantage is also, an advantage in the system of the system is also, an advantage is the system of the system is also, an advantage in the system of the system is also, an advantage is also, an advantage in the system is also, an advantage is also, an advantage in the system is also, an advantage is also, an

#### FOREIGN MINES.

CHICAGO (Silver) .- W. S. Godbe, Nov. 10: I beg to hand you cop

CHICAGO (Silver).—W. S. Godbe, Nov. 19: I beg to hand you op f account sales; three carloads bullion shipped Omaha National Bank for the arry's account. Carload No. 15 realised net 81641 e2; No. 17, 8226 97; No. 18i2 25: total, 85650 24.—
J. H. Latey, Nov. 22: The furnace (No. 1) started up again on Thursday © t noon. I am this evening in receipt of advice that everything went along sie and that at 7 o'clock this morning there was a carload of bullion on hand. If aly one dully report, and will embody it in weekly report next Saturday, me vying here that the first day gave us 116 bars—1904 18s.—funcs and slags lest oz. of silver, and less than I per cent. lead, which is a very good showing for ret 12 hours.

irst 18 hours.

PENTARIENA.—Thomas Roberts, Dec. 3: We melted on Dec. gold for November month, 181 ozs. 0 dwts. 18 grs., obtained from 449% ore, and consigned the same.—Mines: No change in the first and third en west, in Zero level. The opening of the old level has been completed, and there west, in Zero level. The opening of the old level has been completed, and proved; a trial of the or from this enawled the made shortly. The lode int south is not so wide as when last reported, now giving 1 ton per fathom, 1 oz. per ton. In No. 1 level end south, on the western part, the lode is a wide, worth about 7 dwts. per ton. In the new stopes behind this end wide worth about 7 dwts. per ton. In the new stopes behind this end wide, worth about 7 dwts. per ton. In the new stopes behind this end wide, worth about 7 dwts. per ton. In the stopes north of new rise, as of old rise, are both yielding a fair quantity of ore. The end south, on the days. The stopes behind this end was not to value. No. 2 level end, north of first cross-cut, on the western par proved, now producing 1 ton per fathom; a fair trial of this ore will be maked sort. The stopes behind this end have fallen off a little. In the end donorth, in the end of ground above No. 2, the lode is 10 ft. wide, worth 1 dgold per ton. In the end driving north of fourth cross-cut, on the new loe branches, we have ore 4ft. wide; further separate trials of the ore from twill be made shortly. In the end south of the fourth cross-cut, on branches we have ore 4ft. wide; further separate trials of the ore from twill be made shortly. In the end south of the fourth cross-cut, on branches, we have ore 4ft. wide; further separate trials of the ore from twill be made shortly. In the end south of the fourth cross-cut, on branches of how the new lode, north of the wine, are about 2ft. high, worth 7 dwts. p In this No. 2 level we have started a new end southwards, on what we can be a sufficient of the wine, and the sufficient of the wine, and the sufficient of the wine, and the suffic PESTARENA.—Thomas Roberts, Dec. 3: We melted on Dec. 11

med on the 1st inst. LINARRS.—Dec. 3: Pozo Ancho: The lode in the 80, west of Cr LINARES.—Dec. 3: Pozo Ancho: The lode in the 80, west of Croshaft, contains good stones of ore, but not enough to value. The 75, west of Croshaft, is not quite so productive as it was, yielding now I ton of ore perfat The lode in the 75, west of San Francisco shaft, has improved a little in the water yielding I ton of ore perfat The lode in the 55, west of San Francisco which has been idle in consequence of the water, will be resumed very bord lode is worth ½ ton of ore per fathom. In the 85, west of San Francisco which has been idle in consequence of the water, will be resumed very bord we have cut into the south part of the lode, which contains a little lead, 16 yet of the 16 yet of the 16 yet of San Francisco shaft, is ord and regular, and open tribute ground yielding I ton of ore per fathom. The iode is small, with good stones of ore, 16 yet on ore per fathom.—Bhafts and Winzes: In Warne's engineshaft, elow the 85, the cis was the has been cut, bearers and cistern fated, and the expect now to proceed with this important work without further hindrance returns were kept up very regularly in the past month, and the stopes any yielding their usual quantity of ore. The works at surface are going on very factorily, and the machinery is in good working order. We estimate the a for December at 150 tons.—Quinientos Mine: In the 65, west of Taylor's each of the lovel, where there is a the lode standing. The lode in the 55, west of Cox's shaft, is small and ire and sometimes worth its present value, yielding ½ ton of ore per fathom. 45, east of Taylor's engine shaft, the ground through which the end is past broken and disarranged. The lode in the 55, east of Taylor's engine shaft, the ground through which the end is past broken and disarranged. The lode in the 55, east of Taylor's engine shaft, the ground through which the end is past broken and disarranged. The lode in the 65, east of Taylor's engine shaft, the ground through which the end is past broken and disarranged. The lode in the 65, east of Taylor's engine sh

DEC.

the lode, and at the same time increase the ventilation.—Shafts and Winzes. the lode, and at the same time increase the ventilation.—Shafts and Winzes. Below of Taylor's engine shaft below the 65 will be completed to the 80 in the sing of Taylor's engine shaft below the 65, is going down in a promising roll by the per fathom. The lode in Antonio's winze, below the 45, is being sunk through a fine shoot of ore, a plant of a promising and productive appearance, yielding 3 tons of ore per subject of a promising and productive appearance, yielding 3 tons of ore, a plant of a promising and productive appearance, yielding 3 tons of ore, a plant of a promising of Barca's winze below the 55 is resumed. SETOSA.—Dec. 4: Assuncion: In Judd's shaft the ground is seen up around the cave plat, and it is hoped that the adit plat will be compared to make stull next we sides. The bottom is also being stoped for laying tramway, and are the sides. The bottom is also being stoped for laying tramway, and of more, decomposed carbonate of lead, but still looks promising, yielding of lead ore and 3 tons of calamine per fathom. No. 1 stope, in the back level such, one length of stull being completed, regular stoping has been seed; the load of calamine per fathom. No. 1 stope, in the back level such, one length of stull being completed, regular stoping has been seed; the load or and 3 tons of calamine per fathom. Santo Tomas adit, to of lead ore and 3 tons of calamine per fathom. Santo Tomas adit, one of lead ore and 3 tons of calamine per fathom. Santo Tomas adit, the notice of the strong appearance of the started as early as practicable; since shaft side to meet the adit will be started as early as practicable; since shaft side to meet the adit will be started as early as practicable; since shaft side to meet the adit will be started as early as practicable; since shaft side to meet the adit will be started as early as practicable; since shaft side to meet the adit will be some something of value. The has strong appearance of being ab

-Dec. 3: The lode in the 60, west of San Rafael shaft

iende and fluor-spar; there is about 1½ fathom more to hole to the at the raisings for the present month at 35 tons of calamine and the the raisings for the present month at 35 tons of calamine and 135.—Dec. 3: The lode in the 60, west of San Rafael shaft, stones of ore. The 50, west of San Francisco shaft, opened good he past month, but is now greatly reduced in value, yielding ½ ton 50 ton 15 to 15 ton. The lode in the 50, east of Taylor's engine-shaft, is only did of ordiving. The lode in the 85, east of Taylor's engine-shaft, is only water freely, but does not contain any lead at present. In the lor's engine-shaft, the lode is more compact than it was, but control to 15 t

directors have issued a circular to the shareholders containing favourable information received from Messrs. Probert, McGee,

tors have issued a circular to the shareholders containing ble information received from Messrs. Probert, McGee, n, with regard to the progress at the mine, and the progress at the mine, and the progress at the street of the progress at the mine, and the progress at the mine and the progress of the street of

s immense, and the indications are that the ore is increasing win." 
rrigan, dated November 18, was also received this morning, 
The chances of a railway from Palisades to Eureka are lookhinw, president of the Eureka Consolidated Company, has 
and, and feels sanguine of success in getting the capital subpect assistance from the various mining companies around, 
and hopes to have the road running in August next." 
present working costs, especially in freight and fuel, that 
ne opening of railway communication between Eureka and 
ne would be a considerable that the board trust that the 
the subject in mind and be prepared, at the proper time, to 
will so largely increase their future profits.

Company's mine and furances during the month is said to be the greatest ed in the district, if not in that portion of the State." The above extract to show what a deep interest the Richmond Company has in the estaof railway communication from Eureka to Palisades Statton.

Cors take this opportunity of referring to a letter in the Mining Journal of Erons the same correspondent. The writer is in error in the data her as he asks "what is the amount of net profit realised?" The answerdes year ending Aug. 31, 1873, during many months of which period the cree standing idle, while the expenses were going on, the profit after depreciation was \$10.66 on every ton of ore smelled. Since Aug. 31 up to time the farmaces have been running regularly, and the mining profit at \$18 per ton. The comparison instituted by the writer between the Bichmond workings and those of the Eureka Consolidated are fallate conditions are not the same. The writer goes on to ask whether "the elements on unrealised-shipments are based on a bullion value of \$5 c. per oz.". The answer is that the estimated value upon actual proceeds of the previous shipments. The "Sharcholder" sem to be aware that I ton of Richmond bullion consists on the average of silver, 4 ozs. of gold, and the remainder of lead.

days, in some places in America, during the recent panic, silver bars a very low point, in common with many other metals, and this simply set of the difficulty of getting cash for anything, money being at a fabricative silver in the serious cash for anything, money being at a fabricative silver bars a cash of the previous of the silver bars a very low point, in common with many other metals, and this simply set of the difficulty of getting cash for anything, money being at a fabrication of the process of the proper market will no doubt sele, for a short time, of our stock of bullion, of which we have a very mulation on hand.

ORIGINAL HARTLEPOOL COLLIERIES COMPANY.—At the meeting,

#### Mining Correspondence.

BRITISH MINES.

BRITISH MINES.

ABERDAUNANT.—S. Toy. Dec. 10: I have suspended the driving of the 10, east of Hill's cross cut, for a short time, and put all the men in the 10, west of Hill's cross cut; the lode here has fimen, and put all the men in the 10, west of Hill's cross cut; the lode here has fimen, and put all the men in the 10, west of Hill's cross cut; the lode here has fimen, and put all the men in the 10, west of Hill's cross cut; the lode here has fimen, and the six of the 10 the north part of the lode to see what lede it will turn out; so far as I can see, it is I feet wide, and at present is worth 30. per alticle and making good progress in clearing and securing below the No. 4 stope. All there had to decrease the same as at the south mine, about 20 degrees north of west and south of east; it is well defined and strong, with some lead, but not at present sufficient to value. I think it likely that in a few fathoms further drivage it will be found to carry mineral to pay. A trial by two men is the surface of the found to carry mineral to pay. A trial by two men is the surface of the found to carry mineral to pay. A trial by two men is the surface of the deep adit, 11 fathoms west of old whim-shaft, near and in the surface of the deep adit, 11 fathoms west of old whim-shaft, near and in the surface of the deep adit, 11 fathoms west of the winze underneath the stope in the 40 east has been resumed with four men, at 6. 10s. per fathom, to meet winze and explore this ground. There is now a strong mixture of lead and the prespect so far looks favourable. The sinking of the winze underneath the stope in the 40 east since the men commenced to drive. The other two shaftmen are stoping close to shaft in the 15 west. The drivage of the 15 east has been suspended and the men brought back to open up on a joint a little east of shaft, where an intersecting north and south lode comes in, bearing the same as the lode in the 20 east, where the rich or was stoped out underhand to the 30 east year. The new end in the same part o

the rannway, and make the embankment to join Mr. Hawkin's transmend in a fortnight from this time, and shall then be ready to lay down the wood and metal our plant and machinery at surface are in excellent condition, and working satisfactorily.

BEDFORD CONSOLS.—G. Rowe, J. Mitchell, Dec. 10: Saturday last being our four-weekly pay and settings, the following tutwork bargains were fet. The sampwinze to sink below the 57 by nine men, on the south part of the lode, at 17. 10s, per fathom, stent the four weeks; the lode at this point continued its size and character and of the same kindly appearance as reported last week, with very strong mundie, and good stones of ore. The 57 Im. level to drive west of engine shaft, by two men, at 7t. per fathom, stent the four weeks; the lode at this point is large and strong mundie, and good stones of ore. The 57 Im. level to drive west of engine shaft, by two men, at 7t. per fathom, stent the lour weeks; the lod at this point is large and standing and the stones of yellow copper 10s.

BEDFORD UNITED—Wm. Philips, Dec. 11. The lode in the midway level, in back of the 115 east, maintains its value—50s. per fathom. No lode has been taken down in any other part of the mine in the past week. The drivages generally are continued by the side of the lote.

BELSTONE.—Dec. 5. A Shaft: Depth, 70 fms. 1 ft. 6 in.; the ground still continues a little more lavourable for sinking. No change in the 50 fm. level erossecut south. Stones at 30 fm. level are more productive than for some weeks past.

— Dec. 11: We have just intersected in the eastern end of shaft what I think will prove to be a small cross-course, from which water is at present pouring out. this will, no doubt, abate again, after it has had time to drain itself. I shall be also the standard of the strong of the standard of the

winze, under the \$4, is not noted to the we lim. level yet, but I expect to do so in a day or two.

BRYNAMBOR.—George Spargo, Dec. 10: Nochange of importance underground since my last. We are progressing with the surface works as fast as we can get the materials from the station.

BURROW AND BUTSON (St. Agnes).—J. Christophers, J. Mayne, Dec. 10: The \$2, cast and west, continues without change since last week. The clearing of the 50 west will, we expect, be inished in a few days. The cutting down of Tonkin's shaft between the 20 and 30 will be finished in about a week or ten days. We find the end of the driving east, on the north part of the lode, east of Tonkin's shaft, improving. The men brought up some good stones of lead yesterday. We hope the driving will open up valuable ground. The adit, driving east from the great south cross-cut, on the lead lode, is the same as last reported. We are still pushing on the 'clearing of the Butson adit, and making good progress, having cleared about 50 fathons.

CAEGYNON.—T. Hodge, Dec. 10: Since my last we have not sunk much in Jenkin's winze below the 50, the ground being very hard; I put the men to shoot out the lode to its full width, and lengthen it; this done we can make greater progress in sinking; the lode is looking well, and worth for 9 feet long 181, per fathom. There is no change elsewhere.

gress in sinking; the lode is looking well, and worth for 9 feet long 181, per fathom. There is no change elsewhere.

CALDBECK FELLS.—P. Hawke, R. Trevarthen, Dec. 10: We have intersected in the cross-cut, about the point expected, the great south lode in the deep adit, but have broken into it a few inches only, which consists of spar, porphyry, and sulphur. We have holed the winze below the deep adit on the great south lode with the rise in back of the 10 to the east of junction shaft, which has opened out valuable tribute ground, and the workings are thoroughly ventilated as well. The 10 fm. level east, on the great south lode, produces 20 ewts, per fathom copper and lead ores. We are making good progress in the 20 south-east, on the course of the great south lode, to get underneath the shoot of ore gone down in the 10 fm. level above. The 20 west, on the north lode at junction shaft, is worth, for lead and

soper core, le cette, per fathom. The core and the metric being that the size of the size

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The winze sinking below the SS is set to four men, at 6/. 5s. per fathom; the ground is congental, with good stones of lead and a little blende. The sump sinking at Palnure trial set to four men, at 6/. 10s. per fathom; the lode is composed of a beautiful goosan, with carbonate of lime, sulphur, and lead, worth 7/. per fathom for the latter. Owing to the bad weather the engine-house has taken longer to build than was expected, but I am glad to say we expect to get it completed this week if the weather continues favourable. Surface work and machinery going on

build than was expected, but I am glad to say we expect to get it completed this week if the weather continues favourable. Surface work and machinery going on as usual.

EAST DARREN.—Dec. 9: Taylor's shaft: In the 116 east the lode is 4 ft, wide, much broken up and disordered, and unproductive for lead. In the stope over this level the lode is about 1 yard wide, yielding from 10 to 12 owts. of ore per fm. In Skinner's shaft, shiking under the 104, good progress is being made, and the lode being carried down is large and promising, containing occasionally spots of lead. The pitches throughout the different levels on an average continue to yield their usual quantities of ore. We have failed as yet to secure men to resume driving the levels at Blanewn engine-shaft. Our machinery is in good working order, drawing and dressing progressing regularly, and hope to same our usual quantity of 80 tons on the 23d inst.

EAST LLANGYNOG.—E. Pascoe, Dec. 5: Fortnightly Report: We have not taken down the lode in No. 2 west for the last 2 fms. driven; we shall do so in the course of a few days, when I will advise you of its character. In No. 2 east the lode is improving in size and quality, and yielding good saving work for lead. No. 3 west continues to be driven in beautiful mineralised ground; the part of the lode carried is 4 ft. wide, composed of friable rock, intermixed with gossun, quartz, sulphur, and lead, worth 56. 15s. per fathom. The footwall or clay-slate by the side of the lode is rather hard, but there are indications of a change; when this takes place I am persuaded that we shall have a good course of ore in this end. The four stopes over this level are about the same in value as when last reported on. The rise over No. 4 level is still poor. No. 3 level has been driven upwards of 30 fms. in a good course of ore, and I fully expected to meet it in the rise influence to stope the roth level are about the same in value as when last reported on. The rise over No. 4 level is still poor. No. 3; when this is completed

bottom of the mine, particularly as all the levels below are some distance this point. Other places continue just the same as when last reported on. I when LG RENVILLE.—E. Hosking, W. Bennetts, Dec. 6: Setting Rehe engine-shaft to sink below the 120, by six men, at 30!, per fathom for aniader of the lift: the lode is 2 ft. wide, producing a little tin and copper. I do drive west of engine-shaft, by 4 men, at 4!, per fathom; the lode is wide, and worth for tin and copper 8!, per fathom. The 120 cross-cut, to orth, by four men, at 16!, perfathom. The 110, to drive east of cross-course, men, at 12!, per fathom; the lode is 2 ft. wide, producing saving work for copper. The 95, to drive east by 2 men, at 6!, per fathom; the lode is 3 ft. and worth 10!, per fathom. The stope above the 95 east, by two men, at 2!, 5s. nom; the lode is worth 8!, per fathom. The stope above the 95, west of by four men, at 3!, per fm; the lode is worth 10!, per fathom. The wince below the 95 east, by four men, at 7!, per fathom; the lode is worth 2½ tons er ore per fathom. The stope below the 55 east, by three men, at 3!, per lode is worth 8!, per fathom; the lode is worth 18!, per fathom.

e lode is worth S. per fathom.

WHEAL LOVELL—R. Quentrall, Dec. 10: Setting Report: Fatwork: to drive west by twelve men, at 30. per fathom; the lode is producing tons of tin per fathom. The stopes in back of the 99 west to six men, at m.; the lode is worth 15. per fathom.—Tregonebris: To drive and stope the 30, by nine men, at 91. per fathom: the lode is worth 301. per fathom.

EXMOUTH (Silver Lead).—R. Trevithick, J. Cock, Dec. 6: Since our last report

ver, that it was an of condition of conditions are an of condition from Peel II: The shaftmen have not fim, level we anticipated, owing to the sy have had to drive, but being now gain. We have found some stones of we shall have to drive a short distance we shall have to drive a short distance.

VELLAN.-Capt. Harper, Dec. 10: In the cross-cut, driving north of th

e lode is not looking so well at present, but it is of a very promising character, d we are looking duly for an improvement at this point.

FURZE HILL.—W Doidge, Dec. II: No. 1, North Lode: The 54 fm, level east the sense of the same of the lode, and I anticipate getting in the ancient workings in about ten weeks from this date. The men are reving in place and working saturilay afternoons, so that no time will be lost in oving this very important point. The stopes in the back of this level are worth. 10s. per fathom; price for stoping 20s. per fathom.—Middle Lode: The lode in 640 west is improving; present value 4, per fathom, looking kindly. The rise the back of this level is producing good saving work. The stopes west of the seare worth 6, per fathom; price for stoping 32s. 6d. per fathom. Our parcel tin weighted 3 tons 5 cwts. 1 qr. 6 lbs., at 696, per ton, realising 256, 6s., the pro-eds of four weeks working.

rise are worth 8. per fathom; price for stoping 32s. 6d. per fathom. Our parcer of tin weighed 3 tons 5 cwts. 1 qr. 6 lbs., at 69f. per ton, realising 226f. 6s., the proceeds of four weeks working.

GAWTON COPPER.—G. Rowe, G. Rowe, jun., Dec. 6: The lode in the 105, cast of King sengine-shaft, is improving in character, and producing very strong mundic, with fine stones of ore. The lode where cut through some short distance behind the 105 end is 17 feet wide, principally composed of capel, spar, and mundic, intermixed with yellow copper ore. The part of the lode carried in the 95 cast is without change, being continued in easy ground between the north and south parts of lode for the purpose of progress, and to arrive at the desired point for cross-cutting both north and south to the more effectual proof of the lode throughout in the direction of the shoots of ore passing down from the levels above: this mode of operation is looked forward to with some considerable interest, where we calculate on finding the dip of the eastern shoot of ore. The south part of the lode carried at the 95 cast is over 6 feet, principally composed of spar, mundic, and good quality ore to the value of 1 ton per fathom, showing indication of further improvement. The lode in the winze winking below the 89 is worth 12t, per fathom. The lode in the stopes in the back of the 70 is worth 12t, per fathom. The lode in the stopes in the back of the 70 is worth 19t, per fathom. The lode in the stopes in the back of the 70 is worth 19t, per fathom. The lode in the stopes in the back of the 70 is worth 19t, per fathom. The lode in the stopes in the back of the 10 is worth 19t, per fathom. The lode in the stopes in the back of the 10 is worth 19t, per fathom. The lode in the stopes in the back of the 10 is worth 19t, per fathom. The lode in the stopes in the back of the 10 is worth 19t per fathom. The lode in the stopes in the back of the 10 is worth 19t per fathom. The lode in the south lode, the lode must have turned a little more north, or the

dece of tin ground. CARADON CONSOLS.-W. Taylor, W. J. Taylor, Dec. 10: Th

level about 4 fms. In the bottom of the winze the lode is about 4 feet wide; the low atter having been too quick to be kept by the tackle the sinking was suspended until 6 more effectual appliances could be introduced to master it; the lode in the present by bottom is composed of killas, peach, and quartz. This lode has never been seen elsewhere, and is quite a new discovery, the character and quality of it shows it to contain important prospects, and viewed in the light of an indication is almost as much as can be expected at the depth from surface—6 to 10 fathoms. No. 2 lead to lode has not yet been operated on by the persent company; it was opened on about 50 years ago to a depth from surface of about 10 to 12 fathoms by means of a small owater-wheel, and the levels extended on its course a short distance. From the levels and back lead ore was sent into the market; this is an important fact which speaks for itself. A lode with ore cropping up to surface in such quantities may reasonably be expected upon being haid open to prove productive. Levels extended from the present engine-shaft would effectually unwater the workings on this lode, and lay open backs of great extent at a moderate cost. The engine-shaft has been sunk about 25 fathoms below the surface, and a cross cut extended south from its bottom about 22 fathoms. At 8 fathoms from shaft the silver lode has been intersected, lawhich is about 1 foot wide, composed of mundic, fluor-spar, peach, copper ore (yellow) of good quality, and a little silver (in the mundic), altogether a most promising lode, containing the elements that usually are associated with deposits of ore; this lode has a north underlie, and according to its present dip would be near the engine-shaft another sink of 12 fathoms, which I should recommend to be accomplished as soon as it practically could; this lode is a new feature, and has every appearance of being an important one. At about 22 fathoms south of the engine shaft, in the cross-cut at the 25, No. 1 copper lode has been inter mmunication for cheap transit of minerals from the property to port, i ed that this property presents more than ordinary advantages for the in

f capital.

RETALLACK.—J. Harris, Dec. 6: In clearing out the 20, east of th
we have intersected a good floor of blende that will produce fully 1½ to we have intersected a good floor of blende that will produce fully 1½ tou per fathom for 6 ft. on the line of the incline; here we are laying open to ground. In clearing the 30 east I was able to get in to see Stephen's y, which I found full of stuff and crushed to pieces, which will be of no neit to the mine. I have been told the best blende ground in this level east of this shaft, so I hope we shall get into something better soon.

WEST VAN.—James Roach, Dec. 11: The 48, west of cross-cut, comments of lead ore, but the greater part of the lode is still behind a slicken from which water flows freely. We are now cutting through the lode

tribute grows.

It to-day, which I found full of stun and to did the best blende grows.

It to-day, which I found full of stun and the best blende grows.

REAT WEST VAN.—James Roach, Dec. 11: The 48, west of cross-cut, consequence of the second specimens of lead ore, but the greater part of the lode is still behind a slicken e, and from which water flows freely. We are now cutting through the lode his point, and expect every hole we blast will unwater the winze under the 34, in which we have a good course of lead ore. The 34, east of shaft, is yielding as of lead ore per fathom, and good progress made in driving, therefore we aring out stopping ground fast. The 34 west is in a splendid lode, and the drivage idelting about 1½ ton of ore per fathom. We have still a large portion of the lying in the footwall. This will be cut down against next week, and its value ore reported. The winze under the 22 is considerably ahead of the last name obreast, and going down in a porous and vughy lode; that part carried down is off for ore 30 cwts, per fathem, and the remainder contains ore throughout the eastern end of winze we have now a vugh some 7 ft. long and 6 ft. high is is literally filled with carbonate of lead in every conceivable shape. It is

in the stope; it will get into more productive ground g south from the incline the slime or branch has been sequently less ore. We are still cutting strong irony away cross-cut. Low level as usual. We have sent nee last settlement. The weather is very fine for out-

and dressing ore.

SLAKE (Citters).—W. Skewis, J. C. Seccombe, Dec. 10: The lode is blacked east continues to be worth 42l, per fathom. The lode in this level king larger now, about 23\(\xi\) ft. wide, composed of quartz and copper or the latter from 12l. to 14l. per fathom; this end is locking very per further improvement. The lode in the winze sinking in the bottom concludes the worth 30l. per fathom; this looks well for the bottom level are without change. The shaftmen are now preparing to fix the plunger 152.

the 192. YDYR PARK.—W. Bennetts, Dec. 10: I am glad to say the lode in the least has very much improved in the last 3 ft. driving; the lode is now worth , of lead ore per fathom. The lode in the 25 end south is of much the same ver as last reported. The same remark will apply to the stopes in the back

thom. In the 120 fm. level west the lode is again become dis eneal approach to the cross-course; its present value is 5% per fm ing below the 120 fm. level west fair progress is being made, and t a communication with the 140 fm. below in the course of next pope in the back of the 120 fm. level west, east of Griffin's wince 12% per fathom. The lode in the stope in the back of the 120 fm stope in th 12/. per is

week. In the stope in the back of the 120 fm. level west, east of Griffin's wince, he lode is worth 120, per fathom. The lode in the stope in the back of the 120 fm. evel, west of James's winze, is worth 130, per fathom. In the 110 fm, level west, he ground proving favourable, good progress is being made by the side of the lode. ILLOGAN.—R. Pryor, Dec. 10: During the past week there has been no change hroughout the mine worthy of remark. The shaftmen continue to make good rogress with their work. The masons are getting on well with the building of he engine-house, and the carpenters are actively engaged about the necessary roodwork for the same. All things at surface are progressing quite to our satistiction. As Friday next will be our pay and setting day a full report shall be int you.

faction. As Friday next will be our pay and setting day a run report suan resent you.

LADYWELL.—A. Waters, Dec. 11: Setting Report: The 16, north of engineshaft, by four men, at 12/. per fathom; lode at present yielding stones of ore. There is more water than usual coming out of this end, indicating our approach to softer ground and a more open lode. We know that a run of ore in soft ground is gone done in front of us from the deep adit. The 16, south of shaft, by four men, at 3/, per fathom; lode 5 ft. wide, composed of stone, clay, gossan, and solid rocks of lead of splendid character. We are now into the commencement of the best ore ground seen in the deep adit in the old company's time. I never saw finer stuff than that brought out of the said end to-day. The deep adit south, on New Britain vein, by two men, at 3/. per fathom; lode 2½ ft. wide, of a promising character.—Main Lode: The shaftmen have to-day put down new drawing-lift, and will begin to-morrow to sink below the 16 for good. The 18, north of flat-rod shaft, by two men, at 3/. per fathom; lode 4 feet wide, containing a good mixture of lead ore throughout.

men, at M. per fathom; lode 4 feet wide, containing a good mixture of lead ore throughout.

NANT-YR-ONEN.—A. Francis, Dec. 10: The deep adi tlevel is being pressed forward with as many men as practicable towards the lode, where one stone of lead ore alone was found on the back of the lode that yielded nearly 1 ton of clean lead ore, so that when this point is reached there can be no doubt of our opening on a very rich course of ore. In sinking under the adit in the western mine the lode continues to improve daily, and all that is now wanted is the necessary machinery and dressing apparatus to bring us into a state of dividend.

NEW CROW HILL—T. Trelease, Dec. 9: We have completed the casing and dividing, and have put in ladder-road, and sent the water-whim kibble to the 55, and it works well. We have this morning began to drive a cross-cut towards the lode, and I calculate we shall cut the lode by our next setting-day, which is Saturday week, if we get no hindrane with the machinery or pitwork.

NEW DOLCOATH.—J. Vivian and Son, N. Dymo, Dec. 11: In the stope in the western end of the sink under the 140, west of east shaft, the lode is 6 ft. wide, the south part of which is yielding 2 tons of copper ore per fathom, whilst the north part is yielding tinstone of very good quality, and is improving in this respect as we are getting further west, the lode being now worth for copper and tin about 151. per fathom. In the 33, west of engine-shaft, the lode is 2 ft. wide, and producing

NEW DOLCO.

NEW DOLCO.

NEW Dolco.

NEW bolco.

New to sink under the south part of which is yielding 2 tons or part is yielding tinstone of very good quality, and is part is yielding tinstone of very good quality, and is part is yielding tinstone of very good quality, and is part is yielding tinstone of the lode being now worth for copper and tin worth about 71. 10s. per fathom. In the rise copper and tin worth about 71. 10s. per fathom. In the rise lode is 1 foot wide, and worth for copper and tin at low part of tinstone for sale, also a parcel of the part of th

We have commenced another wine west of long winze, in the bottom of the 55, to come down on the 1's west lode, worth from 15' to 20', per fathorn—ground on a carry with the bottom of 1's west lode, worth from 15' to 20', per fathorn—ground on a carry with the bottom of 1's west lode, worth from 15' to 20', per fathorn—ground on a carry with the sampled to morrow; as well as a good sile.

We finish sending away the ore to day, which will be sampled to morrow; as well as a good sile.

GOSTN.—Dec. 9: The lode in the 100' fm; level east in 4ft. wide, showing the bottom of the 50' to 1's to 1's lead per fathom. These stopes are now nearly worked to good sile.

GOSTN.—Dec. 9: The lode in the 100' fm; level east in 4ft. wide, showing the bottom of the 100' fm. level east in 4ft. wide, showing the bottom of the 100' fm. level. A rise is being put up over the 7'0, by six worked to good the bottom of the 100' fm. level east in 4ft. wide, showing the bottom of the 100' fm. level east in 4ft. wide, showing the bottom of the 100' fm. level east in 4ft. wide, showing the bottom of the 100' fm. level east in 4ft. wide, showing the bottom of the 100' fm. level east in 4ft. wide, showing the bottom of the 100' fm. level east in 4ft. wide, showing the bottom of the 100' fm. level east in 4ft. wide, showing the bottom of the 100' fm. level east in 100'

lode has been met with since last reported. The lode in the rise in the back of its 68, on the south lode, is 3 ft. wide, yielding a little tin, and looking promising 168, on the south lode, is 3 ft. wide, and worth 147, per fathom. In the stope in the back of the 60, on the same lode, and over the 60, the lode is 3 ft. wide, and worth 147, per fathom. In the stope in the back of the state of the shaft, on the main lode, the lode is 5 ft. wide, composed of quarty, peach as de driving a cross-cut north to intersect the south lode, which we expect to make the competence of the lode is from 4 to 5 ft. wide, composed of quarty, peach as capel, a very promising lode, and occasionally producing good spots of yolds copper, and the lode is from 4 to 5 ft. wide, composed of quarty, peach as capel, a very promising lode, and occasionally producing good spots of yolds we find a part of the red lode has passed through the shaft, and from the worfing we find a part of the red lode has passed through the shaft, and from the worfing below, as far as we can yet see, the former company met with a rich lofe (opper ore. We are now engaged in securing the shaft, and making preparation for fixing a plunger-lift at the 120. We then intend to again drop the lift to the lift, but have not to the shaft, but we understand to be the bottom of the engine-shaft, and where we can yet to shaft, and the shaft, but we have seen in the worfing and large the shaft, and shaft with the ground is from the logical part of the shaft, as for the shaft, is now cleared and securet to the end, although small, will produce some good copper ore. From the back this level we are putting up a rise in order to prove the lode, and venified the end, although small, will produce some good copper ore. From the back this level we are putting up a rise in order to prove the lode, and venified the end, although small, will produce some good copper ore. From the back will be shaft, in which we have seen in the mine. In the 99 will be shaft, in south 111, per fathom.

laying out tin floors.

NORTH POOL.—W. C. Vivian, F. Clymo, Dec. 10: Since reporting last
we have passed through another small but rich vein of yellow copper ore we passed through another small but rich vein of yellow copper ore in . level cross-cut. There is more water issuing from the rock, and the clay-come very favourable for progress within the last few days. Its general is better than it has hitherto been for the production of copper. I expe

racter is better than it has hitherto been for the production of copper. I expeshall now make rapid progress towards the lode.

NORTH ROSEWARNE.—E. Hosking, Dec. 11: The lode in the 20, east of engine-shaft, is 5 ft. wide, of a kindly appearance; the south part of the loproducing good work for tin, of which we shall see more in a day or two. The in the 10, east of the engine-shaft, is 2 ft. wide, and producing a little coppe We have placed the winze men to stope the west end of the winze below the where the lode is 15 in. wide, and worth 50, per fathom.

NORTH TANKERVILLE.—J. W. Powning, Dec. 10: Venus Bank: The trial shaft is down 4 fms. 4 ft.; the rock in present bottom is stronger, and that could be desired for the lode. In my next report I hope to inform you lode being cut.

de being cut.

NORTH TRESKERBY.—R. Pryor, Thos. Jenkin, Dec. 10: There has be hange worthy of remark throughout the underground department of this uring the past week. Our operations on Snell's lode are being attended will afactory results, and we continue to make exceedingly good progress as re

elopment of the deep adit level.

BATHOLES.—A. Waters, Dec. 11: Setting Report: The 60 fm.le outh of winze on hig spar lode, by six men, at 15t, per fathom; lode as of ore. The stope in back of said level, north of winze, by fow er fathom; lode worth 30t, per fathom. The 60 cross-cut, to go east

ess it should be gone down numer party and the by six men, two months, at 100. 5s. per fathom; lode 5 it. w. per fathom. We shall not take down the ore-bearing-part of the whave effected a communication with the No. 2 winze sunk is about 9 ft. more to drive to get under it. The No. 1 stope is about 9 ft. more to drive to get under it. The No. 1 stope is the by six men, one month, at \$\frac{1}{2}\$. 19s. per fathom, and to have er; they would not take it for two months on these terms, six men, to put it through to the \$\frac{1}{2}\$ on \$\frac{1}{2}\$ of \$\frac{1}{2 ract not ent. The No. 3 contract not out. The No. 4 by four men, two men 44, per fathom. To be paid for fixing stull; these stopes are worth in the gate about 484, per fathom. The stope in the bottom of the level by six menuths, at 46, 10s. per fathom, worth 364, per fathom. The No. 2 winner below the level about 9 frms, being down to water is suspended until dait the level below; lode worth for the part carried about 96, per fathom. The are put to assist the No. 3 stopemen to stope up a piece of ground in back as a to get in stull over stope in bottom. To stope up a piece of ground and senth of No. 3 winze under the 40 by four men, at 42s, 6d, per fathom; east part of the lode worth 104, per fathom. The filling, landing, tramming ing stuff at the winzes, and sundry contract work at surface, the month, by the same number of men as last month, and at about the same prices. The will be delivered on the mine next Theesday or Wednesday.

OLD WHEAL ROSE.—W. Schollar, Dec. 11: We have cleared the old shaft so as to get into the deep adit level, which we shall proceed to clear as a possible so as to work the stopes. We shall now commence to stope shallow level. Nothing new to report at other points.

PANT-Y-MWYN.—William Wasley, Dec. 11: Having come to a great deep water in the sump sinking in bottom of the day level, west of Griffith's shaye taken the men from there, and put them to stope in the roof of the dy Modlen shaft, where I am glad to say they are getting some good ore, lode looking very promising.

PANYS MOUNTAIN.—T. Mitchell, Dec. 11: The ground in the 90 fm

ay. ave cleared the old w

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by Modlen shaft, where I am glad to say they are getting some goes lobe looking very promising.

PARYS MOUNTAIN.—T. Mitchell, Dec. 11: The ground in the 99 fm cross-cut continues favourable, and good progress is being made in the 47 me 55 cross-cut south through the lode is showing occasional stones of copp In the rise in back of the 65 the men are at present stripping down the lode, is turning down a good quantity of copper and sulphur. The cross-cut so the 45 continues in easy ground, mixed with sulphur. This end will some the point immediately over the rise going up from the 55, which is in over g The several stopes are looking much the same as for some time past. If the several stopes are looking much the same as for some time past of the several stopes are looking much the same as for some time past. If nothing new turning up in the tribute department, and hands are scarce for ing operations in the old pitches. Surface worksare going on in their usual order, and the engines and machinery are working well.

PEDN-AN-DREA UNITED.—Wm. Tregay, W. Prideaux, John Popel. Sump: Sinking is progressing favourably, and we hope to clear the 150 in the same the driving there. The 149 east winze has been set on

PEDN-AN-DREA UNITED.—Wm. Tregay, W. Prideaux, John F. Sump: Sinking is progressing favourably, and we hope to clear the days, and resume the driving there. The 140 east winze has been see the lode still being worth 40°, per fathom. In the 140 fathom level i lode (Martin's) is worth 10°, per fathom. In the 140 fathom level i lode (Martin's) is worth 10°, per fathom. In the 180 west end the lode. In the 110 west end the lode is worth 10°, per fathom.—Cobbler's: In the 120 west end the lode is worth 12°, the lode is worth 12°, per fathom. In the 80 east winze the is worth 12°, per fathom. In the 80 east winze the fathom. In the 10° east end the lode (north), is worth 20°, per fathom. In the 60° east winze the law orth 8°, per fathom. In the 60° east winze the law orth 8°, per fathom. In the 60° east end the lode (north) is worth 8°, per fathom. The 60° west rise the lode (north) is worth 8°, per fathom west end the lode (north) is worth 8°, per fathom.—Trevena's: In 1 cross-cut the branch reported last week as intersected here is worth 18°.—Street: In the 30° east end the branches are worth 10°, per fathom.—Tak's: In 1 cross-cut the branches are worth 10°, per fathom.—Tretchley's: We have now taken all surface water uper fathom.—Critchley's: We have now taken all surface water uper fathom.—Critchley's: We have now taken all surface water uper fathom.—Critchley's: We have now taken all surface water uper fathom.—Critchley's: We have now taken all surface water uper fathom.—Critchley's: We have now taken all surface water uper fathom.—Critchley's: We have now taken all surface water uper fathom.—Critchley's: We have now taken all surface water uper fathom.—Critchley's: We have now taken all surface water uper fathom.—Critchley's: We have now taken all surface water uper fathom.—Critchley's: We have now taken all surface water uper fathom.—In the 30° cast end the progress water uper fathom.—Critchley's: We have now taken all surface water uper fathom.—In the 30° cast end the progress water uper fathom.—In the 30° cas

permanents with the cross-cut from the level below for ventilation and proving the value of which you shall have in our next. The lode in the 35 fm. the driving west, is easier for progress and producing stones of ore; we shall push into the proving the prov

-J. Ridge, Dec. 5: Rhurygas: There is no alteration to notice in the

The selectiving east from No. I was its without assess. The use selection of east received and proved is a far, thick, of tripping ground east repulsing ground, west from No. I, in No. I air level, the gravel is 2 ft. thick, of the gravel is 2 ft. thick in the low set is 4 feet which, yielding a little lead and blende—saving work. It is the low set its 4 feet which, yielding a little lead and blende—saving work. It is the low set in the gravel is 1 ft. thick of the gr

SOUTH MERLLYN.—R. Rowlands, Dec. 10: The 120 yard level is producing good saving stuff for the washing-floor. The other points are also looking very promising. We shall weigh this week over 2 tons of clean lead into the shed.

80UTH PHCENIX.—J. Kelly, Dec. 11: Pearson's Shaft; Grace Dieu Lode: The shaftmen are still engaged cross-cutting the lode west of shaft, in the 30 fm. level; we have cut into the lode about 15 ft.; the lode is impregnated throughout with yellow genial for the production of tin; the lode is impregnated throughout with yellow epinal for the production of thir; the lode is impregnated throughout with yellow epinal for the total single production of the start of the

working exceedingly well, and we hope to have a few formight.

80UTH PLYNLIMMON.—J. Walters, Dec. 3: I beg to hand you my report for the general meeting, to be held on Dec. 4 next, giving you a brief statement of the work done since the hast general meeting, held on April 16 last, and also the present prospects of the mine. At the western shalt we have cross-out through the lode, which is about 3 fms. wide, and also driven east and west on its course about 2 fms.

each way for proof of same; the lode is chiefly composed of capel, quartz, killas, and mundic, and has a well-defined wall to the south; the lode is strong and masterly, and of a very kindly appearance to make lead in attaining a little more depth. The 40 west, driving on the course of the lode, has been extended 13 Ims. 4 tt., making a total of 39 fms. 2 ft. 6 in. from the main cross-cut, and a cross-cut driven south about 2 fms. through the lode for proof of size and character of the same; the lode is chiefly composed of branches of limespar, capel, mundic, &c., and letting out water freely—a very strong and masterly lode. The lode so far as seen has proved unproductive. In conclusion, I beg to bring to your notice the two points which I would strongly recommend being carried out. At the western shaft the lode, which certainly presents a very encouraging appearance, I should advise a level to be driven at the foot of the hill; the mountain rising precipitously on that side there would soon be a great depth attained, being from 16 to 20 ms. backs, and as soon as the vein or lode is intersected continue a level cast and west on its course, and by these means it would soon test whether the lode as seen at surface is worthy of a larger outlay or not. To carry out these operations I should say from 180 to 290% would be required. The stratum or country rock is most congenial for lead, being a beautiful dark clay-slate. Also to drive the cross-cut at the 40, to intersect the middle adit lode, as there is but a short distance to drive, and continues to work well.

BOUTH PRINCE PATRICK.—John Jones, Dec. 10: We are making good progress in driving north in Parry's flat, and the ground continues to improve, yielding fine lumps of lead, close upon a hundred weight. When last reporting I intended sinking a sump to prove the flat deeper, but seeing the ground continuing to improve we kept driving on, which has proved very benefical. We are preparing for washing, but the necessary element for that purpose (water) is very sca

and gad. There is more water coming from this end than we have ever before had from it. In driving the deep adit south; ast of the main cross cut, the part of the tin lode which we have struck is now 1½ ft. wide, and it is improving in character. The engineers will finish their work on Saturday next, but there will be still a fortnight or three weeks work to close up the engine and boiler-houses, brick up the structure of the s

Nut Bottom shaft, is worth 12t, per fathom. The stope in the back of the agus in worth 8t, per fathom.

TRELEIGH WOOD UNITED.—J. Brown, R. Jeffery, Dec. 10: Wilson's shaftmen are now engaged removing the lift at the 40 fm. level, to fix the bottom of the plunger-lift and to bring down the main rods. The stope in the back of the 40 fm. level, west of engine-shaft on the caunter lode, is worth for tin 9t. per fathom, and producing good stones of copper ore. In the 30 fm. level end, driving west of cross cut on the caunter lode, the lode in the end is about 3 ft. wide. We have not taken it down since we have commenced to drive this end; will give you its value in our next report. We have commenced to lear up the western shaft, with a ful pare of men; now down about 2 fms. from surface. Our engine and pitwork are working well.

working well.

TYLLWYD.—J. Paull, Dec. 11: All points here are much the same as they were when reported on last week, with the exception of the branch going south of west, on middle lode, which is improving, after passing through the cross-joint mentioned in a former report. At present we are raising some very good specimens of silver-lead ore. All other things on the mine are going on regularly. Saturday being measuring and setting day, a full report shall be sent next week.

VAN CONSOLS MINE—J. Roach, W. T. White, Dec. 11: In the 75 fm. level, east of western engine-shaft, we have no change as yet worthy of remark: in fact, not much has been done since last report in consequence of the large lift getting out of order. The wines sinking under the 60 east of Gundry's is still opening

east of western engine-shaft, we have no change as yet worthy of remark: in fact, not much has been done since last report in consequence of the large lift getting out of order. The winze sinking under the 60, east of Gundry's, is still opening up very satisfactorily, producing fully 1 ton of lead ore per fathom. No. 2 winze sinking below the 60 has a very promising appearance for soon being in a good lode. The '90 fm. level east has greatly improved within the past week, the ore-bearing part of the lode being fully 6 ft. wide, and producing 20 to 25 cwts. of lead ore fathom. It the winze sinking under the 45 cast no alteration. In the winze sinking under the 45 cast no alteration. In the winze sinking under the 45 cast no alteration. In the winze sinking under the 45 cast no alteration. In the winze sinking under the 45 cast no alteration. In the winze sinking under the 45 cast no alteration. In the winze sinking under the 45 cast no alteration. In the winze sinking under the 45 cast no alteration. In the winze sinking under the 45 cast no alteration. In the winze sinking under the 45 cast no alteration. In the winze sinking under the sinking under the winze sink

the men to drive south to intersect a branch, and calculate we shall have about 9ft. or 10 ft. to drive before we reach it, with a view of ascertaining its value about this cross-course. The lode in the rise in the back of this level will yield fully 3 tons per fathom, and is up within 6 fms. of the 42. Two stopes in the back of this level will yield 2½ and 3 tons per fathom respectively. We have a full pare of men driving the 42 cross-course; we have driven about 9 fms. and calculate we have about 12 fms. more to reach the main lode; we expect, however, to cut some branches before this point is reached, and hope to reach the lode about the same time the rise in the back of the 55 reaches this level, and if the lode continues as good as at present we shall open up a good piece of tribute ground: the drivage of this cross-course is about 4 fms. per month. The lode in the 50 fm. level east is still disordered by cross branches. Some of the tribute pitches have slightly fallen off in value.

drivage of this cross-course is about 4 fms. per month. The lode in the 50 fm. level east is still disordered by cross branches. Some of the tribute pitches have slightly fallen off in value.

WEST ESGAIR LLE.—R. Harvey, Dec. 11: There is no change in any of our underground operations since last report. We have the drawing-machine in the western mine again at work, and all machinery working well, including dressing.

WEST GODOLPHIN.—John Pope, jun., Dec. 6: Caunter Lode: The Pressure shaftmen are busily engaged cutting barrow-road at the 50, preparatory to sinking for trip-plat, but it is a very troublesome piece of ground to remove, having to blast the whole of it, and at the same time forced to put in timber over this place to prevent it from falling over their heads: these men last month compieted the dividing and casing of the shaft from the 40 to the 50, and drove this level northwest of the shaft 1 fm. 5 ft. The lode in the 50, diving north-west of Pressure shaft, is 3½ ft. wide, and worth 20. per fathom. I fam pleased to say that we have driven this level south-east and north-west of Pressure shaft about 17 fathoms, and it is the best level we have ever had for thin on the caunter lode. The lode in the 40, driving north-west of Pressure shaft should be a fathor of the shaft that the have two tribute pitches working in the bottom of the 30, a few fathoms before the 40, one at 9s. in 1/s. and the other at 9s. in 1/s. I think we may reasonably expect an improvement here soon. The lode in the invize shaft, is 2 ft. wide, saving work for tin. The lode in Viving's outh-east of Pressure shaft, is 20 in. wide, and worth 5/s. per fathom. The lode in the 40 driving sorth-east of Vivian shaft, is 2 to solve the eap add it is 1 toot wide, poor. The lode in the 40 driving sorth-east of Vivian shaft, is 2 to low in the 40, the saving work for tin. The lode in the 40, driving sorth-east of Vivian shaft, is 2 in. wide, and worth 5/s. per fathom. The lode in the 40, driving sorth-east of Vivian shaft, is 2 in. wide, and

west of the caunter, is 9 in. wide, poor. I calculate our next parcel of thi will be about 9 tons.

WEST GOGINAN.—J. Kitto, Dec. 8: The lode in the 12, west of engine-shaft, is looking very well indeed, and is still yielding very good ore, and presents an excellent prospect for a deeper level. In the same (the 12) level, east of the shaft, we have not yet come up to the ore ground discovered in the adit, but shall soon do so, when we may reasonably expect a decided improvement. The winze sinking below the adit level for ventilation is poor at present, but the lode has not yet been taken down to full width. The lode in the adit level west has been cut off and disarranged by a cross branch, but this is a matter of frequent occurrence, and I expect by continuing the driving in the direction we are now going that we shall soon meet with it again, and in all probability find it productive, as it is about these cross branches that we generally find the best bunches of ore. The pumping, with the horse-engine, is going on all right, and the various points of operation are regularly and satisfactorily progressing.

WEST GREAT CONSOLS.—R. Pryor, H. Vial, Dec. 9: The shaftmen are geting on well with the fixing of the pitwork, and everything, both underground and at surface, is progressing satisfactorily. As Saturday next will be our pay and sating-day, when a full report shall be sent you.

WEST GREAT WORK.—S. J. Reed, Dec. 11: In the flat-rod shaft, now 9 feet below the 16, the Trescow Moor lode is 2½ ft. wide, worth 20% per fathom, and is really a splendid-looking lode; some stones we have broken to-day from the deepest point are the richest I have seen in the mine for a long time, the general appearance indicating the top of a large deposit of tin. In the 18, east of flat-rod shaft, the lode is large, worth 14%, per fathom. The drivage west in this level has recently passed through a ross-course, the lode is again forming a regular footwall, and containing good saving work for tin. A winze sinking below the adit, on No out 9 tons. WEST GOGINAN.—J. Kitto, Dec. 8: The lode in the 12, west of engine-shaft,

moderate, that even an output of 50 tons per day would realise a handsome profit of the shareholders.

WEST TANKERVILLE.—Arthur Waters, Dec. 11: Setting Report: The south boundary shaft to sink below the 64, by six men, at 15\(\delta\), per fathom; 3\(\delta\) fathoms more will put us to the 50, as well as into the lode and middle of the ore ground. The 46 to drive south of shaft, by six men, at 15\(\delta\), per fathom; lode worth 22\(\delta\), per fathom in proving as we advance. No. 1 stope in roof of said level, by six nen, at 7\(\delta\), 10s, per fathom, worth 13\(\delta\), per fathom. No. 2 stope, by four men, at 7\(\delta\), 0s, per fathom, worth 13\(\delta\), per fathom. The 50 cross-cut east, to cut \(\delta\), 2 caunter lode, by two men, at 8\(\delta\), per fathom. A stope in the 3\(\delta\), south of haft, at 5\(\delta\), per fathom, worth 30\(\delta\), per fathom. A stope in the 3\(\delta\), south of haft, at 5\(\delta\), per fathom, worth 30\(\delta\), per fathom. There are two men making a trial on new lode, north of boundary shaft, out of Lawrence's old level.

WEST WHEAL GORLAND.—J. Mayne, Dec. 11: The different points in operation on the north and south lodes continue to yield the usual quantities of tin—Messer's: The sinking of the shaft is being pushed on with all dispatch, and the arious changes going on in the lode strengthen our opinion that as soon as our greer and improving, and next week we hope to be in a position to inform you of ts value.

walue, WEST WHEAL LUCY .- W. Harris, Dec. 11: We have got to the bottom of ne old working, which is 6 fms. deep; I cannot say much about it before we tope the bottom. It appears to me to be a great broll of leadstuff down to a certain depth. I think we could not do better than bring in an adit from the foot of he hill, which would prove it all through. Nothing has been done on Hitchins's

the old working, which is 6 fms. deep; I cannot say much about it before the stope the bottom. It appears to me to be a great broil of leadstuff down to a certain depth. I think we could not do better than bring in an adit from the foot of the hill, which would prove it all through. Nothing has been done on Hitchins's lode since my last.

WHEAL ARGUS.—T. Trahair, Dec. 11: The lode in the stopes in bottom of the 30, east of winze, is not looking so well, the ground being harder and the lode not so large. We can account for this by the stopes being driven further east than we should have driven them but for the bringing down of the skip-shaft. The men in the adit leael have cleared this week 5 fathours. We have taken up some water from going down from the adit level, and hope to take up some more in the course of a few days. The lode in the stopes in back of the 30, west from Collier's shaft, on the Elisha lode, is producing saving work for tin. The lode in back of the 30, on Beacon lode, is looking well. There is nothing new in the tribute pitches.

WHEAL COATES.—W. H. Martin, Dec. 10: On Saturday last we set to cut the 20 cross-cut, to drive north from engine shaft, for the month, or hole to No. 2 winze, to skx men, at 12½ per fathom. No. 2 winze we set to six men and two boys, to drive south, at 12½ per fathom. We have cut through the lode; it is 20 ft. wide, worth full 20% per fathom for tin. In the present cross-cut end we have sevelex worth full 20% per fathom for tin. In the present cross-cut end we have sevelex to six men and two boys, to drive east and west at the 20 from No. 2 winze worth 20½ per fathom, but it is vorth over 30% per fathom; the lode is 20ft. wide. We took the six men from ladder winze to drive east and west to in No. 2 winze worth 20½ per fathom, but it is vorth over 30% per fathom; the lode is 20ft. wide. We took the six men from ladder winze to drive east and west from No. 2 winze, to make a little room for the present. On Monday next they will go back in ladder winze again, and drive

There is no change in the tribute department.

WHEAL GRENYILLE.—E. Hosking. W. Bennetts, Dec. 6: Setting Report:
To rise above the 150, on the South Condurrow lode, by nine men, at 222, per fm.
for 9 ft. extent: the lode for the part carrying is worth 357, per fathom. To drive
the 140, east of cross-cut, by four men, at 167, per fathom. In this end we have
met with a good deal of mundic, which we never saw before in this lode, and although the lode is not now quite so good for tin, being worth 407, per fathom, yet,
judging from appearances, we think we shall soon see it again improve. To stope
above the 140, east of cross-cut, by four men, at 77, per fathom; the lode is worth
204, per fathom. To drive the 120, east of north shaft, by six men, at 47, 10s, per
fathom; the lode is 2½ ft. wide, and worth 158, per fathom. To sink the north
shaft below the 120, by six men, at 167, per fathom. To sink the north
shaft below the 120, by six men, at 167, per fathom; the lode is 25 ft. wide, producing saxing work for tin. To drive the 110 east, by four men, at 83, per fathom;
the lode is 20 in, wide, and worth 84, per fathom. To sink the winze below the
110 east, by four men, at 87, los, per fathom; the lode is worth 222, per fathom.
To stope below the 110 east, by three men, at 27, 5s, per fathom; the lode is worth
154, per fathom. To drive the 10e east, by four men, at 47, per fathom; the lode is 26 th, wide, and worth 77, per fathom. We have also set 22 pitches to 49 men, at
an average tribute of 12s, 1d. in 17, the tributers to be paid at the rate of 607, per
ton of black tin.
WHEAL GRENYILLE.—E. Hosking, W. Bennets, Dec. 11: There is no change.

on of black tin.
WHEAL GRENVILLE.—E. Hosking, W. Bennets, Dec. 11: There is no change

WHEAL GREAT IDEA.—1. Receasing mee our report of Saturday last.
WHEAL KITTY (St. Agues).—S. Davey, J. Williams, Dec. 6: Our points of peration and prospects are without change to notice since our report for the

general meeting.

WHEAL RUBY.—J. Richards, Dec. 3: I have no change to report in the lode this week, its appearance and the ground are about the same as for some time past, except there is a leader of prian come in on the hanging-wall, which looks more promising, and should it continue will somewhat facilitate our driving so as to

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reach the granite in less time than calculated on, where it is reasonable to look for a good discovery of mineral on this large and well-defined east and west lode. WHEAL ROBARTES.—J. Goldsworthy, Dec. 5: The sinking of the trial shaft is being forced on as fast as the nature of the ground will permit; fair progress is being made. The lode is widening as the shaft deepens, and there is no dout: a productive lode will be opened up if the shaft is sunk (say) 20 or 30 fathoms deeper, as the appearance of the lodes are all that can be required at such a depth.

— J. Rickard, Dec. 10: The ground in driving the adit end, west on the main lode, is becoming more favourable for exploring, and there is also a change in the appearance and character of the strata by the south side of the lode. I am pleased to see this important chang, as I think we have now good reason to expect a speedy and important improvemen in the lode itself, and I shall be almost daily looking forward to a valuable discovery.

WHEAL UNY.—Wm. Rich, M. Rogers, S. Coade, jun., Dec. 6: The 160 end, west of engine-shaft, is wort 100, per fathom. The 160 east is worth 60, per fathom. The 160 east of Goodinge's, is worth 80, per fathom. The 190, east of King's shaft, is worth 100, per fathom. The 101 east is worth 80, per fathom. The 102 east is worth 80, per fathom. The 103 east of Goodinge's, is worth 80, per fathom. The 104 east is worth 80, per fathom. The 105 east is worth 80, per fathom. The 105 east is worth 80, per fathom. The 105 east is worth 80, per fathom. The 106 east is worth 80, per fathom. The 107 east of king's, is worth 80, per fathom. The 108 east is worth 80, per fathom. The 108 east is worth 80, per fathom. The 108 east is worth 80, per fathom. The 109 east is worth 80, per

worth el. per fathom. The ground is favourable for driving the 30 cross cut north. The men in Hind's engine-shaft have been busily employed the last few days casing and dividing the shaft, and fixing ladders: this is now completed, and the sinking resumed by ni e men.

WHITEHAYEN.—Dec. 10: Midway drift, north of rise, has been driven 1 fm.

5t. by four men, at &l. per fathom; yield of ore in the lode 10 tons per fathom. Midway drift, south of rise, has been driven about 4 fathoms, by four men, at M. per fathom: lode not looking quite so good for ore as when last reported on. The lode here is large, and to all appearance will soon resume its former productive character. Stope in back of this drift has been driven 2 fms., by four men, at M. per fathom: lode not looking quite so good for ore as when last reported on. The lode here is large, and to all appearance will soon resume its former productive character. Stope in back of this drift has been worked by four men, on day-work; about 180 tons of ore got out.—Side Vein: This drift has been driven about 4 fathoms, by two men, at 20. 10s, per fathom. No change in the lode to notice.—No. 2 Drift: The rise in back has been worked about 1 fathom 3 feet, by four men, at 10. Per fathom; this rise has been holed to No. 1 drift, and has featly improved the working of No. 3 drift below. The men are now engaged in driving No. 2 drift, and have driven about 4 ft., at 8 k. per fathom. I think while heaven shall soon have ore here.—No. 3 Drift: This drift has been driven about 1 fm. 4 ft., at 11. and % per fathom, by four men. No change to notice in the lode since his any that the old men have worked a great deal on this lode from No. 4 to No. 3 drift above, but there is no doubt as soon as we get into whole ground we shall say that the old men have worked a great deal on this lode from No. 4 to No. 3 drift above, but there is no doubt as soon as we get into whole ground we shall have a large course of ore. No. 3 cutting on top of hill, has been worked about 6 fathoms 3 feet,

TANKERVILLE.—From the report received this week the aggregate value of the different points is 700% per fathom: 75 tons of lead ore was solyesterday, at 15%, 2s. 6d. per ton.

BURROW AND BUTSON. — By the requisite two extraordinary BURROW AND BUTSON.— By the requisite two extraordinary general meetings of the shareholders the vendor of the mines and the origina financial promoter of the company has been appointed "managing director," to remain in authority and a member of the board of directors until the mines shal have paid a dividend of 15 per cent. In any one year. This gentleman having taker the balance of the 10,000 shares of the second issue at a fair price, after inviting his co-shareholders in the most liberal spirit to participate with him in the advantage of his purchase, the company is now placed upon an unexceptionable financia footing, having practically an unlimited power to provide further working capita should the prospects and progress of the mines render such at any time desirable Meantime, the present principal produce—blende—is gradually rising in price, and the prospects for silver-lead and copper are daily improving.

### IN THE MATTER OF THE COMPANIES ACTS, 1862 AND 1867

CWM VRON LEAD MINING COMPANY (LIMITED)

NOTICE IS HEREBY GIVEN, that all CREDITORS and other PERSONS having any DEBT, CLAIM, or DEMAND against the above named company are hereby required TO SEND IN the PARTICULARS of all such DEBTS, CLAIMS, and DEMANDS to Essex WHYTE LAYTON, of 4, Loth bury, in the City of London, the Liquidator of the said company, on or before Tuesday, the 23rd day of December, 1573, and in default thereof they will be EXCLUDED from the BENEFIT of any DISTRIBUTION made before such DEBTS, CLAIMS, and DEMANDS are PROVED.

Dated the 3rd day of December, 1573.

IN THE MATTER OF THE COMPANIES ACTS, 1862 AND 1867;

AND OF THE
EAST CWM VRON LEAD MINING COMPANY (LIMITED). EAST CWM VRON LEAD MINING COMPANY (LIMITED).

NOTICE IS HEREBY GIVEN, that all CREDITORS and other PERSONS having any DIBT, CLAIM, or DEMAND against the abovenamed company are hereby required TO SEND IN the PARTICCLARS of all such DEBTS, CLAIMS, and DEMANDS to E-SEX WHETE LAYTON, of 4, Lothbury, in the City of London, the Liquidator of the said company, on or before Tuesday, the 23rd day of December, 1873; and in default thereof they will be EXCLUDED from the BENEFIT of any DISTRIBUTION made; before such DEBTS, CLAIMS, and DEMANUS are PROVED.

Dated the 3rd day of December, 1873.

E. W. LAYTON, Liquidator.

IN LIQUIDATION.

IN THE MATTER OF THE COMPANIES ACTS, 1562 AND 1567;

EAST CWM VRON LEAD MINING COMPANY (LIMITED).

EAST CWM VRON LEAD MINING COMPANY (LIMITED).

POR SALE, BY TENDER, the UNDERMENTIONED PLANT and MACHINERY, also the TENANT'S RIGHTS to the BUILDINGS and the MINES, viz.:—
ONE 30 ft. WATER WHEEL, 3 ft. breast; 40 fms. 2 in. rods (iron); 40 fms. rails; 140 fms. wood and zinc air pipes; 30 fms. 6 in. wood rods in shaft, pulley, &c.; 24 fms. 6 in. plunger lift; 12 fms. 6 in. drawing lift; 1 fores whim; 1 balance bob; 60 fms. ½ in. wire rope; 6 cwts. grease; 4½ cwts. powder: lot of smiths' tools; 1 smiths' bellows, anvil, and vice; 1 tram wagon; sundry office furniture; buildings; 1 smiths' shop; 1 carpenters' shop; 1 store room; 1 office; 1 powder house. house.

The property is situate near the town of Llanidloes, in Montgomeryshire, believed to be very valuable, and well worth the attention of those connected

The property can be viewed, and full particulars obtained, by application to Capt BRY KITTO, of Llanidloes.

JOHN KITTO, of Llanidloes.
Tenders must be sent in to the Liquidator, Essex WHYTE LAYTON, Esq., 4, Lothbury, London, not later than the 23rd day of December next. Conditions can be seen at the offices of Mr. LAYTON, as above, or at Capt. KITTO's office.

E. W. LAYTON, Liquidator.

CAGLIARI MINING COMPANY (LIMITED).

Notice is hereby given, that a GENERAL MEETING of the shareholders in this company will be HELD at 12, Great Winchester street, London, at Two ociock in the afternoon of MONDAY, the 28th of December, 1573.

By order of the Board, MONTAGUE BEALE, Managing Director.

DELAWARE AND HUDSON CANAL COMPANY SIX PER CENT DEBENTURES of 1875.

Notice is hereby given, that the COUPON due lat January, 1874, on the loan of 2500,000, issued through Messrs. GLIRAD A. SWITH and Co., will be PAID by the Imperial Bank (Limited), 6, Lothbury, on and after that date.

Coupons must be left one clear day for examination.

TO TRONMASTERS AND CAPITALISTS

TO IRONMASTERS AND CAPITALISTS.

OR DISPOSAL, a HEMATITE IRON MINE in NORTH
WALES.—The following is a condensed analysis of the ore obtained from
the trials already made:—Oxide of iron and combined water, 91:32; oxide of manganese, 3:83; sulphur, '15; phosphorous, traces; silica, lime, &c., 4:70.
A tramroad to the London and North-Western Railway is within about one mile
of the works. A moderate outlay only will be necessary for acquirement and
development. Mining agents are respectfully requested not to reply.
Address, "J. P.," care of Mr. Thomas, Stationer, New London-street, E.C.,

MINING MACHINERY.

MESSRS. F. W. MICHELL AND CO. have FOR SALE several CORN'SH PUMPING, STAMPING, and WINDING ENGINES, of different sizes: BOILERS from 6 to 12 tons each; PITWORK of all sizes; CORNISH CRUSHERS; STAMP AXLES: IRON FLAT-RODS; STRAPPING PLATES; and other MATERIALS in general use in Mines, &c. MATERIALS in general use in Mines, &c. EAST CARN BREA, REDRUTH, CORNWALL.

MESSRS. S. R. COCKS AND CO., MINING ENGINEERS, &c.,
ROCHE, ST. AUSTELL
COPPER MINE GRANT OR SETT FOR SALE.
TIN MINE
SLATF QUARRY
"""
HING CLAY"""
HING MINES
Also, 24 heads of STAMPS, iron axles, four cams to the round, and dressing appliances.

with this week's Journal a Supplemental Sheet is given, which contains: Prof. Guthrie's Lectures on "Heat," at the Royal School of Mines—The Channel Tunnel—Geology of the Cape of Good Hope—Sir Walter Raleigh's "El Dorado"—The Writing Ball—Silver Mining in Bolvia—Iron Mining in Brazil—Death of Mr. G. Maltby—Foreign Mining and Metallurgy—Foreign Mines Reports—Blue Tent Consolidated Hydraulle Mining—The Galvanometer, and its Uses—Qualitative Blowpipe Analysis—Patent Matters—Meetings of the Great Wheal Vor, Burrow and Butson, Terras Tin, and Great Fron Fownog Companies.—Original Correspondence: The Gold Coast of Africa (G. Peacock): Utah Silver Mining Company (J. Longmaid); Blue Tent Hydraulle Mining Company; Gauley-Kanawha Coal Company; Silver in Copper Ores; Steam Pumps at the Vienna Exhibition (Tangye Brothers and Holman); Mining by Machinery (C. Ball); Miners' Conversations; N. Ennor's Advice to Men inclined to Speculate in English Mines; "Original Correspondence" in the "Mining Journal;" West Wheal Seton, and its Management; Mine Management—the Five-Weeks Month; Brynn Mine; St. Lawrence Amalgamated Mining Company; New Brynpostig Lead Mining Company; Position and Prospects of Wheal Tregoss (S. R. Cocks), &c.

## The Mining Market: Prices of Metals, Ores. &c.

METAL MARKET-LONDON, DEC. 12, 1873

		-	-		-
COPPER. &	s. d. £			IRON. per tou. € s. d. € s	
Best selectedp. ton 93	0 0- 94			Bars Welsh, in London12 0 0-12	
Tough cake and tile. 91	0 0- 92		0		2 6
Sheathing & sheets 98	0 0-100		0	Nail rods 12 5 0	-
Bolts102	0 0-103	3 0	0	" Staffd. in London12 10 0	-
Bottoms102	0 0-103	0	0	Bars , ditto12 10 0-14	0 0
Old 85	0 0-	-		Hoops,, ditto14 5 0-15	0 0
Burra Burra 91	0 0- 92	0	0	Bars at works 11 10 0	-
Wireper lb. 0	1 034-	_		Hoops,, ditto13 10 0-14	0 0
Tubes 0	1 052-0	1	1	Sheets, single, & plates 4 10 0-15 1	0 6
				Pig No. 1, in Wales 5 0 0-6 1	0 0
Sheets	100	114		Refined metal, ditto 7 0 0-8	0 0
Wire	101/4			Bars, common, ditto11 10 0	_
Tubes	111/4	111/		Do., mrch. Tyneor Tees 11 5 0-11 10	0 0
				Do., railway, in Wales 10 0 0-11	
Yellow metal sheathing .				Do., Swed. in London.19 5 0-19 10	0 0
Sheets	81/4d			To arrive20 0 0-21	
SPELTER.	per ton			Pig, No. 1, in Clyde 5 5 0-5 1	
Foreign on the spot 27	0 0-28	0	0	Do., f.o.b. Tyne or Tees 4 10 0- 5 10	
to arrive			6	Do., Nos.3,4, f.o.b., do	
				Railway chairs 5 5 0-6	0 0
In sheets 33				10 10 0 14	
In sheets 33	0 0-33	10	0	Indian Charcoal Pigs,	
QUICKSILVER (p. bot.) 19	10 0-20	0	0	in London, p. ton 10 0 0-12 (	0
TIN.					
English blocks £120	0 0	_		Swed., in kegs (rolled) — per ton.	
				Swed., in kegs (rolled)	
Do., bars (in brls.) 121	0 0-			Ditto (hammered)21 0 0	
Do., refined 122	0 0-			Ditto, in faggots22 0 0	
	0 0-119		0	English, spring24 0 0-25 (	0
Straits 120			0		
TIN-PLATES.	per bo	х.		LEAD. per ton.	
IC Charcoal, 1st qua. † £1	17 0- 1	19	0	English Pig, com24 0 0-24 5	0
IX Do., 1st quality 2	3 0-2	5	0	Ditto, L.B24 5 0	
IC Do., 2d quality 1	15 0-1	17	0	Ditto, W.B25 0 0	
IX Do., 2d quality 2	1 0-2	3	0	Ditto, sheet	0
IC Coke 1	9 0-1	11	0	Ditto, red lead25 10 0	
IX Ditto 1	15 0- 1	37	0	Ditto, white	0
Canada plates, p. ton 21	0 0-21	10	0	Ditto, patent shot 27 5 0	
Ditto, at works 20	0 0-21	0	0	Spanish23 5 0-23 7	6
				less. † Add 6s. for each X.	
Terne-plates	s, per bo	x be	LOV	v tin-plates of similar brand.	
		-	_		

REMARKS .- A further reduction of Bank rate to 42 per cent. on Thursday last has not tended to extend the character of the business in metals, which generally continues to be limited to the supply by home consumers of their immediate requirements, and for shipment to the small indents received from abroad. There is no disposition on the part of manufacturers to make for stock, and there is no fear of foreign markets being glutted by speculative shipments. Makers are receiving orders which just suffice to keep their works in operation, and buyers will not enter into any transaction which it is possible to avoid. The necessities of trade must, ere long, compel either buyers to come into the field at current rates, or sellers to reduce their quotations to such a figure as shall prove an inducement to further business.

proper.—There is no fresh feature to report on in the copper ket. Throughout the week this metal has been devoid of anima-The speculative element is totally absent for the present, and tion. The speculative element is totally absent for the present, and consumers prefer purchasing just as immediate necessity may demand, rather than lay in any superfluous stock. The position of the market appears to be intrinsically sound, but as there seems to be no present inducement to speculation, and the demand from all quarters is only just sufficient to maintain existing firmness, some change in the condition of affairs must present itself before any material alteration can be looked for. On Monday g.o.b. realised 32: 10s., and Wallaroo 93: cash. On Tuesday the demand continued very limited, and prices without alteration. Wednesday's business comprehended a cargo of regulus consisting of 700 tons sold for arrival at Swansea at 16s. 61.; 25 tons Wallaroo changed hands at 23: cash. On Thursday the market was very quiet, and to-day there is no change to record. English varieties are very quiet; best selected is quoted 63: 10 35: 1, tough, 91: to 192:; strong sheets, 99: to 160; 1; tough, 91: to 192:; strong sheets, 99: to 160; 1;

wards a sade of prices lower than those now ruling. In yellow metal there is very little doing, and lower prices have been accepted for both sheets and sheathing. It is not improbable that sellers may shortly have to submit to some still further concession in price with a view to secure orders much needed by some.

IRON.—The prospects of the iron trade from South Wales are somewhat more encouraging than they were, not that there is any marked improvement in actual business as yet, but enquires are more general, and there appear to be various indications that on the turn of the year there is a probability of greater animation. The two causes which seem likely to bring about this improved condition of affairs are—first, that buyers have very generally held aloof for so long a period in the hope of some reduction in price, that it is judged that there must be a limit to their power of endurance, and that to carry on various undertakings, the progress of which is suspended or delayed, it will be absolutely necessary to contract for considerable quantities of iron in the early part of next year, and the condition of the coal trade and labour market seems to indicate that there may possibly be increased facilities for the carrying out of work, which have been wanting for some time past. The home demand is likely to be good, and it is expected that Russis will be a buyer to a large amount. What course the Americans intend to take is still doubtful, and it would be unwise to build much upon any prospects at present held out from that quaater, at the same time it is so far satisfactory to remember that whatever change occurs must be a change for the better. No nation in the world recovers from a crisis, be it what it may, with such rapidity as America, and it would cause little astonishment in business circles if next year witnessed a decided revival in the American trade.

There is no important change in the Iron Trade in the North of England. Quotations for pig-iron are, for No. 3, 85s., and No. 4 forge, 77s. 64. for

a long way towards the settlement of a very important and much-vexed quesin for if it be possible to effect this arrangement in one branch of the iron trade,
by should it not be introduced in like manner into all?
The Scotch pig iron market, which had gradually improved throughout last
ele, still further advanced on Monday, business having been done up to 105, 9d.,
day closing with buyers at 105. On Tuesday there was a reaction, 104s, 6d.
ing accepted, after which, however, prices advanced 1s., and at the close there
havers at 105s, 3d. Wednesday's market showed an improvement, 108s, 3d.,
ing the highest figure at which business was done. At the close there were
yers at 105s, 6d., and seliers 3d. in advance. Yesterday the market was lower,
insections were not large, but parcels changed hands from 105s, 3d. to 105s,
ing with buyers at that price. To-day the market has been irregular. Busising with buyers at that price. To-day the market has been irregular. Busidone 104s, 6d. to 165s, 3d., but at the close prices were not quite so
de.

SHIPMENTS.

Tons 12,411

Decrease

Total decrease since Dec. 25, 1872

LEAD.—The position of this metal continues to be one of great firmness. Under the influence mainly of the political condition of Spain, which materially affects the production of lead from the Spanish mines. the manufacturers of English pig-lead are able to command a sale at 244. 5s. Special brands are quoted 5s. higher.

ZINC.—100 tons of Oberhausen have been sold for arrival at 314. net, and 140 tons London rolled from 304. 2s. 6d. to 304. 5s.

SPELITER.—There have been but two sales reported during the week: 25 tons of "common" Silesian at 254. 17s. 6d., and two days later an equal quantity "ordinary" Silesian at 264. 15s.

Tin.—The market for this metal forms the solitary exception to the quietness which has prevailed very generally throughout the week. There has been considerable animation, and prices have gradually advanced from 116% to 120% for Straits. Speculations has been more general, and considerable quantities have changed hands as prices advanced. On Monday about 50 tons Straits were sold, France to 117% cash, and at the latter price for February and March prompt: 10 tons Blanc at 116%, and 120% January prompt; 50 tons Bancs, 50 tons Billiton, and 50 tons 118%, and 120% January prompt; 50 tons Billiton realised 116%, Bancs, 120% Straits, at 118% January edivery: 20 tons Billiton realised 116%, Bancs, 120% tons all were sold—Straits for cash at 120%. For January prompt 121%; Bancs, 118% English ingot was quoted at 120%, and barsat 121% to 121%, 10s. On Thursday transactions were not so numerous: 10 tons of Straits were reported to have designed at 121%, all January; 10 tons Banca, 118%, 10s.; and 5 tons Australian, 118%, 75 day the market has not undergone any change, and no business of importance has been reported.

been reported.

TIN-PLATES,—The demand for tin-plates continues good. IC coke
plates have been sold at advancing prices, and charcoal plates have commanded a ready sale.

commanded a ready sale.

COPPER.—Messrs. James and Shakspeare—A cargo of about 700 tons Chill regulus has been sold, to arrive, at 16s. 6d. per unit. In bars only accepted to the control of the period of the control of the control of the period of the control o

ingots have fetched 117s. per cwt. for cash and short arrival.

Messrs. Vivian, Younger, and Bond.—The transactions in foreign copper have been extremely limited. Chili bars were rather firm at the beginning of the week, and several hundred tons changed hands at \$2', to \$2', 10s. Jos for only may, \$3', to \$2', 10s. picked brands, and R. Walker at \$5', 5. to \$6', 10s. Walkars has maintained the quotation of \$3', throughout, with only an occasional transaction; sales of Burra at \$2', to \$2', 5s. A cargo of Chilian regulus, due ner month, sold at 16s. 6d. for Swansea, and ores of fair percentage at 16s. per unit. The charters for the first half of November from Valparaiso are not yet advised by cable, pending which the market is quite inanimate at quotations. English is only moderate demand, at 91', to \$2'\$, tough, and \$93', to \$4'\$, best selected. Manafactured selling at \$99'\$, for strong sheets.

Messrs. Rogers, Son, and Co.—The business in copper this week Messrs. Rogers, Son, and Co.—The business in copper this week has been very limited. Bars have ruled at \$22. los, and Wallaroo 93.; but Burn has been depressed, and sales have been reported as low as 91. los. The life in the trade has for the moment died out, but business, no doubt, will be resumed a arrival of the next West Coast charters, now due. The consumers generally, at home and abroad, all look for lower prices, and withhold their orders; but some or later some good purchases will have to be made. There have been some further small sales of ores and regulus at current prices, and day to day bars and Australian also change hands, but in very limited quantities.

TIN.-Messrs. Grenfell and Rickards-During the eleven month TIN.—Messrs. Grenfell and Rickards—During the eleven months ending November 3100 tons of fine Australian in has actually gone into consumption, against about 250 same time last year. But during the same period 2400 tons else of Straits in has been imported into England than last year. These figure show how large the consumption of tin is (the stock of tin in London, Holland, and affoat, for both countries Dec. 1, 1873, being only 170 tons more than on Dec. 1, 1873, So many miners are returning from America to Cornwall that we expect labor, there will be cheaper, and coals are also easier to purchase; this will help Cornish mines, the produce from which up to-day is very nearly equal to the quantity a turned last year. The points we require more reliable information on are—will the import of Australian in continue of the present magnitude, and will the decrease shown this year in the import of Staits tin continue during 1874? Owing to disculties in sampling the ore, the sale of Australian ore here on Tuesday next will be a small one; but there is a very large quantity of ore preparing for the market for the sales on Jan. 6. As we write the tim market is excited, it being believed that the Bears" have over sold themselves.

TIN-PLATES.—Messrs. Alex. Sparrow and Co. Liverpool—The de-

TIN-PLATES,—Messrs. Alex. Sparrow and Co. Liverpool—The depresion caused by the total cessation of American demand during the panic brought common coke tin-plates below cost of production, and late in November a very large business was done at from 26s. to 28s. per box. There has also been a large demand for charcoal ternes, and for the present prices are much firmer; but many maken are said to hold large stocks, and it is doubtful if prices would be sustained if these stocks were put on the market. Quotations—Coke tin-plates, 29s. 6d. to 32s.; coke tin-plates, superior, 33s. to 34s. Charcoal tin plates, 36s. to 40s., IC; charcoal ternes, 32s. to 36s., IC—f.o.b., 8 per cent.

The MINING SHARE MARKET has shown more activity this week, particularly for tin mines, several of which have advanced in price, and as coming events often cast their shadows before, it is to be hoped that this sudden demand for tin mines may be the precursor of a rise in the tin standards of Cornwall. At this time last year English block tin was at 143%, per ton; it is now 119%, or 24% less. The price obtained by the mines in December, 1872, was about 80% to 85% per ton, and is now 65% to 70% per ton. The production of tin in Cornwall has fallen off very considerably during the year through the abandonment of several mines, but the quantity of metal and ore on the market has been more than made up by the arrival through the abandonment of several mines, but the quantity of metal and ore on the market has been more than made up by the arrivals from Australia, which in eleven months to November 30 have been 300 tons of metal and 3991 tons of ore. Altogether, the quantity from Australia during the year, including that in hand and not sold, is estimated at 4815 tons of ore. Now, in 1871 we had no tin from Australia, and in 1872 only 450 tons of ore. The returns for the present year, therefore, show conclusively that Australian tin has indeed been the bête noire of the Cornish miner during the past few months, and it is some sort of satisfaction, perhaps, to find from a correspondence from Queensland that the prices realised in London for these ores have caused not only great dissatisfaction in Australia, but a loss of 5t. to 15t. per ton on all sent to this country; so that most of the large companies working there have failed, and the owners of the property have had some idea of erecting furnaces for smelting their ores on the spot.

of the property have had some idea of erecting furnaces for smelting their ores on the spot.

In looking, therefore, to the future of our Cornish tin mines, everything seems to point to an early rise in tin, and to far better prices for the coming year. The smelters are notoriously short of stock and if they cannot depend upon Australia for their future supply of ores, it is also certain that the production of Cornwall cannot for a very long time be materially increased. Too many mines have ceased working altogether that can never be re-opened, and too many have become involved in difficulties, owing to the high price of materials and the fall in tin—for which the monopoly of smelters have, notwithstanding Australia, much perhaps to answer for—to lead us to expect any increased production in Cornwall, and ere long the smelters may find to their cost they have killed many a goost that laid their golden eggs.

The settlement of the fortnightly account has occupied the chief attention of the dealers this week, but transactions have taken place in Carn Brea, Dolcoath, Wheal Grenville, Wheal Crebor, Old Treburgett, Tankerville, West Tankerville, West Crook's Kitchen, Hingston Down Consols, South Roman Gravels, and a few others.

Carn Brea shares have advanced 10%, per share, and leave off 61 to

Carn Brea shares have advanced 10% per share, and leave off 61 to 63; the mine, we understand, has been thoroughly inspected by the 63; the mine, we understand, has been thoroughly inspected by the lord's agent, who expressed his entire satisfaction as to its condition and mode of working. Dolcoath shares, 49 to 51; Cook's Kitchen, 11½ to 12½; Tincroft, 39 to 41; East Basset, 12 to 14; East Lovell, 10½ to 11½; East Pool, 8½ to 10. Wheal Grenville shares have been indemand, and leave off 6½ to 6½. Old Treburgett, 12s. 64, to 17s. 64; Tankerville, 10 to 10½; West Tankerville, 2½ to 2½; Wheal Basset, 25 to 30. Wheal Crebor, 4 to 4½; the lode in the 108 east, referred to last week, is now valued by the agents at 4 tons of copper one per fathom. The lodes also in the 72, 48, and 36 appear to be im fathom. The lodes also in the 72, 48, and 36 appear to

per fathom. The lodes also in the 12, 30, and 50 appears to proving.

Great Wheal Vor, 2½ to 3; at the meeting the supplemental accounts showed—Assets (cash in hand), 783% 8s. 6d.; old materials sold, 228% 17s. 6d. = 1012% 6s.—Due to merchants, 1838% 18s. 11d.; dues, &c., 548% 7s. 1d.; showing a balance of liabilities over assets of 1375%, to meet which a call of 1477% 10s. (5s. per share) was made. Bedford, 10s. to 15s.; Bog, 1½ to 1½; East Caradon, 1 to 1½; East Wheal Grenville, 5s. to 10s.; Great Laxev, 13 to 14; Hingston Down, 35s. to 40s.; Marke Valley, 20s. to 25s.; Penhalls, 2 to 2½; Pennerley, 1½ to 2; Penstruthal, 19s. the 21s.; Perkins Beach, 10s. to 12s. 6d.; Great West Van, 1½ to 2½; Prince of Wales, 4s. to 5s.; Providence Mines, 7½ to 8½. Mines, 7½ to 8½.

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Boand Gravels, 17 to 18; Rookhope Valley, 20s. to 25s.; South Com Brea, 3½ to 3½; South Condurrow, 4½ to 5½; South Frances, 10 to 12. South Roman Gravels, 19s. to 21s.; at the special meeting, beld on Wednesday, the resolution of the general meeting, authorising the issue of 6000 shares at 1½ each, with 1½ 10s. paid-up, were read ing the issue of 6000 shares at 1½ each, with 1½ 10s. paid-up, were read ing the issue of 6000 shares at 1½ each, with 1½ 10s. paid-up, were read ing the issue of 6000 shares at 1½ each, with 1½ 10s. paid-up, were read ing the issue of 6000 shares at 1½ each, with 1½ to 20 paid and 1½ to 20 end east, in this mine, seems to indicate its approach to a productive state, were seem to indicate its approach to a productive logic, west Esgair Lle, 3½ to 3½; West Gordand, 1½ to 20 end east, in this mine, seems to indicate its approach to a productive logic, west Frances, 10 to 12; West Gordalphin, 2½ to 3; West 5½; West Frances, 10 to 12; West Godolphin, 2½ to 3; West 5½; West Godolphin, 2½ to 3; West 5½; 3½ to 37½; Wheak Kitty (St. Agnes), 9 to 9½; Wheal Marga-Setou, 3½ to 37½; Wheak Kitty (St. Agnes), 9 to 9½; Wheal Marga-Setou, 3½ to 3; West 120; Wheal Luny, 2 to 2½; Rosewall mad Ransom United, 18s. to 20s. At the Spearn Moor meeting the accounts showed a loss on the six months' working of 251½, and 46bit balance of 348½.

At the special meeting of New Lovell, held on Dec. 5, 930 shares were relinquished; but it was resolved to carry on a few tribute with the special meeting of New Lovell, held on Dec. 5, 930 shares were relinquished; but it was resolved to carry on a few tribute with the special meeting of New Lovell, sheld on Dec. 5, 930 shares were relinquished; but it was resolved to carry on a few tribute with the special meeting of New Lovell, sheld on Dec. 5, 930 shares were relinquished; but it was resolved to carry on a few tribute with the special meeting of New Lovell, sheld on Dec. 5, 930 shares were relinquished; but it was resolved to carry on a few tribute sheld on the six of Fortuna, 53 58 per share.

be met. Choitales, 17s. 6d. to 29s.; Eberharut and Aurora, 4 to 73; bears, 37 to 4½; a dividend of 2s. 6d. per share has been declared. Frams, 93 to 4½; a dividend of 2s. 6d. per share has been declared. Frams, 93 to 4½; a dividend of 2s. 6d. per share has been moderately active, the fortnightly settlement having set has been moderately active, the fortnightly settlement having set has been moderately active, the fortnightly settlement having set has been moderately active, the fortnightly settlement having set has been mode to close speculative accounts for the best class of magneta, although, as usual at the end of the year, a few purchases he been made to close speculative accounts for the fall.

The Metal Market has been without any special feature, although de increasing cheapness and abundance of money imparts a harding the increasing cheapness and abundance of money imparts a harding the declared of the set of the

of these three companies deal with their shareholders, while most disconcerting rumours are in circulation as to the legal as well as the financial position of at least one of the mines.

The shares of the Gold-Washing Company remain in good request, although, of course, business is restricted as the year draws to a close. There are indications, however, that the water season is commencing, as one of the companies has received a telegram during the week announcing the resumption of washing. It is doubtful if the rains have steadily commenced, but as all the companies are in readiness to take advantage of the first storms, it cannot be long now before intelligence of a satisfactory character is at hand from "One and All." Blue Tent, 5\frac{1}{2} to 5\frac{1}{2}; in another column we print a very satisfactory report from Col. Tozer; he is pushing the work on the new ditch to the utmost, carrying on the operations of the company with vigour; he is anticipating a prosperous season. Cedar Creek, 2\frac{1}{2} to 2\frac{1}{2}; the great item of intelligence this week is a cable message from Mr. Ludlum that he has started washing on one of the claims. We give his telegram in full in another column. Sweetland Creek, 5 to 5\frac{1}{2}; Mr. G. D. McLean is bringing his various works to a conclusion, and is more than ever satisfied that the cessation from washing has been of incalculable benefit to the company. Birdseye Creek, 2\frac{1}{2} to 3\frac{1}{2}; Mr. G. D. McLean is bringing his various works to a conclusion, and is more than ever satisfied that the cessation from washing has been of incalculable benefit to the company. Birdseye Creek, 2\frac{1}{2} to 3\frac{1}{2}; Mr. G. D. fice the alignment of the company. Birdseye Creek, 2\frac{1}{2} to 3\frac{1}{2}; Mr. G. D. fice the alignment of the mine is also apparently improving in one or two parts, and Mr. Haley begins to speak again of succes in more assured tones.

General Brazilian, 1-16 to 3-16; the adjourned general meeting has been convened for Friday, when a pr

yet produced any large quantity of tin, this is to be accounted for by the frequency of small cross-courses, which have disordered the ground for something like 20 fms. It is, however, the opinion of all the mining authorities who have inspected the ground that on going further west the lode is likely to become more productive. This opinion is now endorsed by Capt. J. Thomas, of Dolcoath Mine, whose report was read at the meeting. Great Wheal Vor has held its way now for 14 years without a call, and in that period has divided 88,324. amongst its shareholders. We commend the shareholders for their pluck in not abandoning so valuable a property on meeting with disappointment, and sincerely trust the call just made may be the means of developing as good a mine as ever in the western ground. The price of tin is now 30! per ton less than in the beginning of last year, whilst coals are about double the price. This difference to a mine like Great Vor must be very serious. Both are, however, now improving in favour of the mines.

price. This difference to a mine like Great Vor must be very serious. Both are, however, now improving in favour of the mines. Linares, 34 to 44; a dividend of 2s. 6d, per share has been declared. Fortuna,  $5\frac{3}{4}$  to  $6\frac{1}{4}$ ; a dividend of 5s. per share has been declared. Van,  $32\frac{1}{2}$  to  $37\frac{1}{2}$ ; the driving of the 30 west has been resumed; the lode at this point is 13 ft. wide, good ore throughout, and is a very favourable indication for the 45 fm. level when under this ground; the 60 east is worth  $80\ell$ , per cubic fathom; west,  $50\ell$ , per cubic fathom; about 18 or 20 fathoms more driving will extend this level under the great run of ore ground gone down westward in the bottom of the 45 fm. level; the 75 fm. level cross-cut is close upon the south side of the lode, and gas and water are issuing from the end. Van Consols are firm, at 4 to  $4\frac{1}{6}$ ; the lead is reported to be met with in the 60 fm. level, and the manager states that the mine is improving at all points. Penstruthal shares are in demand, at 19s. 6d. to 21s. 6d. Captain Teague has decided to at once commence operations on the

60 fm. level, and the manager states that the mine is improving at all points. Penstruthal shares are in demand, at 19s. 6d. to 21s. 6d. Captain Teague has decided to at once commence operations on the famous old Penstruthal lode. Roman Gravels, 17½ to 17½; the mine is looking well, and sampled this week 230 tons lead ore. Dyliffe, 7 to 7½; the usual report will be seen in another column. The mine is looking well, and will sample 80 tons lead ore next week. Tankerville, 10½ to 10½; the shares have advanced during the last few days. The mine is improving; the various ends are valued at 7000, per fathom, as will be seen from the reports in another column. The company sold yesterday 70 tons of lead ore at 15d. 2s. 6d. Bog, 1½ to 1½; the water is gradually declining in the 163 as the shaft is sunk. This will soon unwater the course of ore left in the bottom by the old workers. The shaft is being sunk on the lode, and is producing good ore. Pennerley, 1½ to 2½; the mine has of late much improved, not only in Potter's Pit, where the late discovery still maintains its value, but also in the old portion of the mine, which is looking better than for some time past.

Subjoined are the closing quotations:—
Bog, 1½ to 1½; Carn Brea, 62 to 64; Devon Great Consols, 1 to 1½; prem.; East Van, 2 to 2½; East Lovel, 10½ to 1½; Carn Brea, 62 to 64; Devon Great Consols, 1 to 1½; Frem.; East Van, 2 to 2½; East Lovel, 10½ to 1½; Carn Brea, 62 to 64; Devon Great Consols, 1 to 1½; Frem.; East Van, 2 to 2½; Last Lovel, 10½ to 1½; Carn Brea, 62 to 64; Devon Great Consols, 3½ to 4; West Chiverton, 5 to 5½; West Esgait Le, 3½ to 3½; Wheal Greenville, 6½ to 7; West Chiverton, 5 to 5½; West Esgait Le, 3½ to 3½; Wheal Greenville, 6½ to 7; West Chiverton, 5 to 5½; West Esgait Le, 3½ to 3½; Wene Greenville, 6½ to 7; West Chiverton, 5 to 5½; West Esgait Le, 3½ to 3½; Wheal Greenville, 6½ to 7; West Chiverton, 5 to 5½; West Esgait Le, 3½ to 3½; Wheal Greenville, 6½ to 7; West Chiverton, 5 to 5½; West Gerbardt and Aurora, 4½ to 4½; Chontales, 5s.

The CORNWALL MINERALS RAILWAY COMPANY, through Messis. G. S. Herbert and Son, are inviting subscriptions for 50,000l., in SIX PER CENT. PREFERENCE SHARES, of 100l. each, being part of the 275,000l. constituting the entire preference capital, and for the pay-PER CENT. PREFERENCE SHARES, of 100% each, being part of the 275,000% constituting the entire preference capital, and for the payment of the interest on which there are not earnings available, estimated at 67,875% per share—due on Jun. 1, the net price, reckoning the discount on pre-payment, is reduced about 96% ps. per share. The system of railways of this company is of a very important character to West Cornwall, affording most valuable business facilities to the extensive series of mining properties in the district, as by it they are placed in direct railway communication with the port of Newquay on the north and the ports of Par and Fowey on the south, from which places extensive shipments of ore, both coastwise and the foreign trade, are made. In addition to this, by the medium of the Cornwall Minerals Railway the whole of the mining district is brought into direct railway communication, was the Cornwall Railway, with Falmouth and Penzance on the south, as well as with Plymouth, and rie the South Devon Railway, and the Bristol and Exeter Railway, with Exeter and Bristol, thereby giving access to the whole of England. The company also pos sesses special privileges as to the shipments from Fowey Harbour, which is accessible to 1000-ton vessels at all times of the tide, and which will be improved, and by adding extensive wharves, sidings, and other works, adapted to the shipment of atleast 2500 tons of material per day estimated to pass over the railway. The company in addition, leases Newquay Harbour and Par Harbour, thus concentrating in itself all the necessary arrangements for the movement of ores either by water or by railway. Reference to the market position of the preference stock of other rail ways, certainly not more favourably situated, shows that a very large margin exists for an increase in the value of the Six per Cent. Preference Shares now offered, beyond the price of subscription, so soon as the line is completed, and to trustees and others seeking a thoroughly reliable home investment, free f

The Anglo-Bolivian Silver Mining Company, with a capital The ANGLO-BOLIVIAN SILVER MINING COMPANY, With a capital of 100,000, in shares of 5.6 each, has been formed to purchase the Prusiana and four other mines in the Caracoles district, Republic of Bolivia, near the Descubridora, and other rich mines. The mines are well situated, and railway accommodation will shortly be provided. The prospectus and detailed information concerning the district will be found in other column.

The Eight per Cent. Western Extension Certificates of the Atlantic The Eight per Cent. Western Extension Certificates of the Atlantic and Great Western Railroad Company are 1 to 1½ prem. The First Mortgage Bonds of the New York, Boston and Montreal Railway Company are 78½ to 78. Atlantic and Great Western Railroad Leased Lines Rental Trust Bonds are 87½ to 88½, and the New Issue 80½ to 81½. Atlantic and Great Western Third Mortgage, 24½ to 25: Preference Stock, 9 to 11; and the Common Stock, 6 to 8. United States Rolling Stock is 20½ to 21. The telegram from the 2nd Vice-President Blanchard, head of the freight department of the Erie Railway, New York, states that the November through tonnage equalled last year; the lower rates caused the reduced receipts: eastward rates were advanced on Monday; westward rates will be advanced on Jan. 1: business is improving rapidly. The net earnings of the Chicago and Paducah Railway on the 128 miles open amounted for the month of October to \$20,328. The traffic receipts of the Erie Railway for the fourth week in November, six days to 30th ult., amount to \$359,000, or 71,800%, against \$389,916, or 71,863%, for the corresponding six days in 1872. The Beven per Cent. First Mortgage Bonds of the Uruguay Central and Hygueritas Railway Company of Montevideo are ½ to 1½ prem.

The transfer-books of the Ebbw Vale Steel, Iron and Coal Company will be closed from Dec. 19 to Dec. 31, when an interim dividend of 5 per cent. per annum will be paid.

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TWO SPLENDID OPPORTUNITIES SUCH AS ARE SELDOM MET WITH—the one, a COTTON SPINNING CONCERN, ready for IMMEDIATE WORKING, and stocked with the most VALUABLE MACHINERY, principally new—the other, a LARGE IROMMOGERY BUSINESS, at present and for the past 22 years in ACTIVE TRADE, and which has always realised very large profits—ARE NOW OFFERING.

Bona fide investors only are invited to apply for interests therein. Adventitions investors, speculating with the object of receiving promotion money, will not be treated with.

Those only who desire to secure a permanent income and active the proof against the contract of the past of the past

who desire to secure a permanent income on a moderate investment, personally, or address by letter—

ME. HALLAS, PUBLIC ACCOUNTANT, 32, FAULKNER STREET, MANCHESTER,

Who will furnish the fullest information, and to probable investors furnish letters of introduction to view the properties.

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#### Notices to Correspondents.

• Much inconvenience having arisen in consequence of several of the Number during the past year being out of print, we recommend that the Journal should be filed on receipt: it then forms an accumulating useful work of reference.

UTILISING BLAST FURNACE SLAG—"R. M." (Sheffield).—We believe Mr. Hiran C. Coulthard, C. E., of Duke-street, Westminster, proposed the utilisation of blast furnace slag in the manner described. He proposed to granulate the slag by letting it fall into water, and then use it as a surface for asphalte paving. The granulated slag was, of course, to be applied whilst the asphalte was still soft. This combination is not used at Osnaburgh; there the slag is simply reduced into grains by being made to fall, while hot, into water from a height, and then used as railway ballast, or to mix with concrete. When, however, it contains sufficient alumina it is manufactured into alum.

The British Steel. Thank—"D. L." (Southwester, Thank, C.)

cient alumina it is manufactured into alum.

THE BRITISH STEEL TRADE—"D. L." (Southwark).—The useful effect of Henry Bessemer's labours as an inventor cannot be better shown than by referring to the increase in the annual production of steel since he read his paper at Cheltenham, in 1856. Before his invention was brought into use our annual make of steel scancely exceeded 50,000 ton; it is now nearly 500,000 tons.

COPPER SCRISTS.—I am desirous to learn if copper schists, or shale, are treated in the United Kingdom for the ores they contain, although to low percentage. Pembrokeshire abounds in such strata. If some of your numerous readers will inform me if such copper schists are so treated I shall feel obliged.—ENQUIRES.

GREAT WEST CHIVERTON.—The directors of this mine have as yet given no infor-

me if such copper schista are so treated I shall feel obliged.—ENQUIRER.

GREAT WEST CHUERTON.—The directors of this mine have as yet given no information to the shareholders, although solicited to do so. The shareholders have surely a rightto know what has been accomplished with their money. This mine was brought out with a great flourish of trumpets, but where are the trumpeters now? If the mine is in a state of collapse, why do not the directors, like honourable men of business, call a meeting of the adventurers at the London office, and, if requisite, pass a resolution to have the company voluntarily wound-up, and the assets, if any, returned to the shareholders. It will be better for all parties to make a clean breast of it with regard to the state of the mine. Under these circumstances directors, by acting otherwise, do much damage to the interests of legitimate mining.—Shareholder.

POLARHOUGH.—I should be very glad if some correspondent would kindly tell me

POLARISCOPE .—I should be very glad if some correspondent would kindly tell me the name of any treatise or handbook (of an inexpensive character) to the use of the polariscope, and give an idea of the price of such an instrument for chemical investigation.—GLAMORGAN.

PRACTICAL MINING-AN INCH OF WAYER-D. R. (Brighton).—The min of water is a stream 1 in, thick, and would probably be about 20,000 FRACTICAL MINIG—AN INCH OF WATER—D. R. (Brighton).—The miners'inch of water is a stream 1 in. thick, and would probably be about 20,000 gallons. The average price at the mines is about 10 cents., or 5d. It is only miners, however, who usually get the water at that price. For ordinary manufacturing purposes many are paying in the Western States at the rate of 3s, per 1000, and for domestic purposes as much as 7s. 6d. per 1000 gallons is sometimes paid.

ANTIMONY—"S. A." (City).—Regulus of antimony is worth about 55% f.o.b. in London.

London.

New EAST LOVELL.—I am a shareholder in this mine, which is situated in the parish of Constantine, and was considered to be promising for tin, but it so long since I saw any notice of it that I am in doubt as to whether it be still in operation. Will any of your correspondents kindly give me any information concerning it?—DOUBTFUL.

tion. Will any of your correspondents kindly give me any information concerning it?—DOUBTFUL.

AUSTRALIAN COPPER—"B. G. and Co." (New Broad street).—The English and Australian Copper Company, 17, Gracechurch street, are the principal producers and importers of Burra Burra and Wallardo copper.

WHAT ARE WALLSEND COALS.—In consequence of certain coal dealers being brought before the magistrates for selling as "Wallsend" coal of other descriptions. Messrs. Cockerell have taken the opportunity to explain that the term "Wallsend" was originally descriptive of the coal drawn from the spot where the old Roman wall ends on the northern side of the Tyne. For at least 50 years past the term "best Wallsend" has applied to certain coals ranking as the most valuable for household purposes, and is, in that respect, as distinctive a term now as it ever was. Anyone ordering "best Wallsend" should be secure of obtaining Lambton's, Hetton's, Original Hartlepool, Tees, or Wallsend coals ranking with these, and certified as such by the factor on the London market.

LLANEWIT.—We readily comply with the request of Mr. Alfred Harper, of Llanbrynmair, that we should state that he is not the author of the letter signed "Pedestriam" (a name de plane, used by him in a series of interesting communications, published in the Journal some time since), which appeared in the Supplement to the Maing Journal of Nov. 29. Mr. Harper knows nothing whatere of the Llanrwst Mine, nor of the writer of the letter.

WHEAL MARY—CHANGE OF MANAGEMEET.—The letter of the Chairman, Mr. W. J. Thompron, was received too late for insertion.

BHARE DEALING.—We never interfere in the sac or purchase of shares: neither do we recommend any particular mine for investment or speculation, or broker through whom business should be transacted. The addresses of most of the latter appear in our selvertising columns.

AMERICAN SUBSCHBERS.—In reply to several enquiries, it may be stated that subscribers in the United States can be supplied with the Manny Journal, post free.

latter appear in our advertising columns.

AMERICAN SUBSCRIBERS.—In reply to several enquiries, it may be stated that subscribers in the United States can be supplied with the Mining Journal, post free, at the price of 83 gold per annum, payable in advance, by remitting to Mr. D. Yan Nostrand, publisher, and importer of selentific books, &c., Murray street, New York; or, direct to our Office, 26, Fleet-street, E.C.

SEW YORK; or, direct to our Office, 26, Fleet-street, E.C.

BEPOSTED "MINING JOURNALS."—Many of our subscribers who re-post the Manag Journal to their friends subject them to a fine of id. per copy on delivery through inattention to the Post-office regulations. If the halfpenny adhesive stamp be affixed partly on the wrapper and partly on the repeated "closed against inspection," and surcharged a cordingly. If the newspaper cannot be slipped out of the wrapper if required for inspection, the newspaper privilege is lost.

### THE MINING JOURNAL.

Railway and Commercial Gazette.

LONDON, DECEMBER 13, 1873.

SAVING LIFE AFTER EXPLOSIONS-THE AEROPHORE.

Save when valuable property, or invaluable lives, or both, have been jeopardised by one of the many disasters which have of late years made the South Lancashire coal field so notorious, there has probably never been seen on the bank of a Wigan colliery such an assembly of experts in mining as that which took place on Monday last. The scene of the gathering was the Barley Brook Colliery, belonging to Messrs, Pearson and Knowles, and situate close to the main line of the London and North Western Railway, and in the immediate neighbourhood of the collieries of the Messrs, Turner, at whose pits occurred the accident which forms the latest addition to the long list of casualties in this neighbourhood. The object of the meeting was to witness the first experiments in England with the meeting was to witness the first experiments in England with the

meeting was to witness the first experiments in England with the aerophore, a machine which its inventor, M. Denayrouze, of Paris, claims will enable miners to penetrate to a great distance into choke or fire damp, to remain there several hours, to carry their lighted lamps without danger, and to have free use of thier arms.

The experiments were under the direction of Mr. Robert Applegarth, of London, English representative of the patentee, and M. Guichard, from the establishment, in Paris, of M. Denayrouze, and to these gentlemen Messrs. Pearson and Knowles had kindly granted the use of their premises at Barley Brook. The gathering possessed more than a mere local interest, for not only had Mr. Applegarth issued a large number of invitations, but the Lancashire and Cheshire Coal Association had, through its secretary (Mr. Pease), brought the matter prominently before the members of the coal trade generally. Unfortunately, Mr. Bell, her Majesty's Inspector for the district, was through indisposition unable to be present, but the body to which he belongs was represented by the veteran who by seniority stands at the head of the list of Inspectors—Mr. Joseph Dickinson, F.G.S., than whom probably no living man could bring to bear so wide and varied an experience in mining matters—and his assistant, Mr. J. S. Martin. Amongst those also present were the following, but it was impossible to obtain anything like a complete list; in many cases colliery owners had sent as their representatives their manners. impossible to obtain anything like a complete list; in many cases colliery owners had sent as their representatives their managers, underlookers, or some other official whose intensely practical knowledge made them the most capable of forming an opinion as to the value of the invention:—Mr. Jonathan Lamb, deputy-mayor of the borough; Mr. Thomas Southworth, Hindley Green Collieries; Mr. ledge made them the most capable or rotation deput value of the invention:—Mr. Jonathan Lamb, deput value of the invention:—Mr. Jonathan Lamb, deput value of the invention:—Mr. Jonathan Lamb, deputy-mayor of the borough; Mr. Thomas Southworth, Hindley Green Collieries; Mr. William Lamb, Newtown Collieries; Mr. William Bryham, Douglas Bank; Mr. John Cross, Gidlow: Mr. W. Barratt and Mr. J. Thompson, Norley; Mr. Diggle, West Leigh; Mr. Tonge, Hulton; Mr. C. G. Jackson, Wigan Coal and Iron Company; Mr. Peter Pickup, Blackburn; Mr. R. Betley, F.G.S., analyst to the Corporation; Mr. Livesey, Oldham; Mr. Fisher, Bradley Hall; Mr. Wm Pickard, miners' agent for the district. Mr. J. E. Pearson and Mr. T. Clarke, manager, represented the firm who owned the colliery.

The apparatus is not the result of the first attempt to deal with

nager, represented the firm who owned the colliery.

The apparatus is not the result of the first attempt to deal with this class of danger in mines. Twelve years ago M. Rougnayrol, engineer of the mines at Firney, submitted to a committee appointed by the Societé Minérale of St. Etienne, an apparatus which obtained from the society a silver medal, but it was not wholly satisfactory, and since its appearance not much has been heard of it, though several schemes have been mooted for meeting the requirements this was intended to fill. M. Denayrouze's apparatus is of two kinds, one high pressure and the other low. That in use on Monday in the principal experiments was on the high-pressure principle, and

its general features of construction may be thus briefly described: its general features of construction may be thus briefly described:

—A number of portable cylinders, as large or as small as may be desired, are charged with compressed air. In those used on Monday there was a pressure of about 16 atmospheres, and this could have been increased. These cylinders are lowered with the workman into the shaft. Communicating with them is a long flexible tube about an inch in diameter, and so strong that it can hardly by any possibility be damaged. The person descending the mine has previously taken one end of this tube in his mouth, and has closed his nostrils with a small "nipper," and placed a pair of what may be called hermetically sealed spectacles over his eyes. Thus prepared he can breathe only through the mouthpiece and tube communicating with the reserved air in the cylinders. The cylinders become stationary at the bottom of the workings, but the worker may municating with the reserved ar in the cylinders. The cylinders become stationary at the bottom of the workings, but the worker may move away from them to a distance of one, two, or three hundred yards, winding out hose as he moves. The tubing is, of course, so arranged that its length adds nothing to its weight, so far as the person using it is concerned. This is a very rough outline of an invention which in its details seems calculated to meet all the more obvious objections that may have already suggested themselves to vention which in its details seems calculated to meet all the more obvious objections that may have already suggested themselves to the reader. If the compressed air were suffered to reach the operator without any intermediate contrivance, and at its own high pressure, he would at once be choked. It is accordingly passed through another part of the apparatus, affixed to his back, which by a mechanical contrivance, which is really the secret of the whole invention, so regulates the pressure that the air reaches him very much in the condition of that which he breathes above ground. But some breathe more heavily than others; the mouthpiece is accordingly so constructed as to enable a man to take in just as much or as little air as he may want. So far, however, we have only provided for inhalation. The process of exhalation is accomplished by means of a small aperture in the tube at about a couple of feet from the mouth. The breath may pass out of this and mingle with the foul gases beyond, but nothing can find its way back again through the gases beyond, but nothing can find its way back again through the same opening. Another arrangement of valves and a tube supplies a continuous current of air to the lamp which the miner carries in his hand, and enables it to burn brightly where no other lamp could live.

ne of Monday's experiments was a small field close to the The scene of Monday's experiments was a small neighbors to the shaft of the pit. The operators would have been willing to enter the pit, but naturally it was not considered advisable to create artithe pit, but naturally it was not considered advisable to create artificial perils. In addition to the gentlemen present by invitation a number of miners soon joined them, and so completed the representative character of the little crowd. And as the throng moved out of the field towards a small publichouse on the high road, where a preliminary experiment was to take place, the collier's wife and the collier's baby pressed forward with the rest to gratify a very legitimate curiosity. The lamp of M. Denayrouze's invention was first tried by itself, and the operators—M. Guichard and Mr. R. Applegarth—conducted this experiment near a house, in order to obtain a supply of common gas. Their object was to show that the lamp would burn freely and without danger amidst explosive gas. The lamp was supplied with the petroleum in ordinary use. It was lighted, placed in a shallow dish of water, and covered with a large glass vessel, which also enclosed the end of a gas tube communiaignted, placed in a shallow dish or water, and covered with a large glass vessel, which also enclosed the end of a gas tube communicating with the main inside the house. The gas was then turned on, and it poured in freely for some minutes until—as could be seen by the bubbling of the water—it drove all, or nearly all, the air out of the glass vessel. The lamp meanwhile drawing its supply of air from a tube in communication with one of the cylinders, was seen to be burning brightly. In fact, the flame was just as clear after the glass vessel was removed as hefore it was not on and the gas in the glass vessel was removed as before it was put on, and the gas in one case and the air in another by which the lamp was environed seemed to have no effect upon it whatever, its own air being con-veyed direct from the cylinder to the interior of the wire casing

which held the flame.

The party then returned to the field to try the apparatus in its complete form. Hitherto there had been little or no danger in the experiment. If the lamp had not been properly supplied with air it certainly might have caused the gas to explode, and have turned the glass vessel into a bombshell; but the operators professed to have no fears on this point, and their confidence was certainly justified by the result. In what was about to be done there was at least greater apparent risk. The colliery managers had been asked to fill a small outbuilding set apart for the purpose with the most noxious gas they could make. They had accordingly burnt charcoal and sulphur together, until they produced a vapour of sulphurous acid, in which it was alleged that no air-breathing creature could long exist. By looking through a small window the place could be seen to be pretty which held the flame. which it was alleged that no air-breathing creature could long exist. By looking through a small window the place could be seen to be pretty full of this compound. Mr. Applegarth was the first to venture in. Taking off his coat, he put on a strongly-made jacket of webbing, to the back of which were attached the two moderating valves, and, indeed, all the machinery of this part of the apparatus, with the ends of the tubes communicating with the cylinders. This jacket was firmly fastened round the body, with straps buckling in front. The "nippers" were then affixed to the nose, and the "goggles," with their rims of inflated india-rubber made to exclude all gas, were placed over the eyes. The lamp was at the same time lighted and attached. The word "all ready" being given, the door was opened. The spectators stepped back to avoid the fumes, which were noxious even in the open air, and the operator, carrying an unfortunate kitten in his hand, entered the lut, and was shut in, the tube trailing behind through an opening which had been made in unfortunate kitten in his hand, entered the hut, and was shut in, the tube trailing behind through an opening which had been made in the door of a size just sufficient to admit of its passage. Some carpenters' tools had been left in the little building, and in another moment Mr. Applegarth was heard at work with them, his object being to show that he could not only live, but keep up a considerable amount of activity—as much, in fact, as would enable a man to do anything that was necessary in the pit itself. The task he had set himself was the making of a box, with hinges and fastening complete, out of the rough planking that lay on the floor. While he sawed and hammered a strange crowd pushed and struggled outside the little window for a sight of him. The pitmen, of course, succeeded best in this enterprise, but some pit lasses, in the costume ceeded best in this enterprise, but some pit lasses, in the costume pecular to the district, were in the next order of merit. The comments of these people were not without interest for listeners who were out of danger, though they might not have given equal satisfaction to the workman inside. According to one of these, Mr. Applegarth was thoughtfully making himself a coffin in view of the almost certain issue of the experiment. According to another, the box was only to serve for a "a coffin for t'cat." At length, after the sawing and hammering had lasted some 22 minutes, the operator held up the finished piece of work, and, as others were to succeed him, and time was of some importance, the door was opened and he walked out. His face was as wet with perspiration as though it had been dipped in water; he had in effect been in a very powerful vapour bath, for the sulphur and charcoal were burning and throwing off

fatigued than any man might be after nearly half-an-hour's steam ing, and there were no signs that he had been in the least degree affected by the gases as such. He breathed freely also when the mouthpiece was removed, and at once bestirred himself in getting the machine ready for the next operator. The hapless kitten was then brought out. It was not quite dead, its position on the floor, and in the direct line of draught from the lower part of the door, and in the direct line of draught from the lower pair of the door, having aided it in the fight for life, but it did not linger long. It was laid on the grass outside the hut, and its last struggles were watched by the crowd of colliers apparently not without sympathy, as though the mode of its death gave it a claim on the compassion of men themselves subject to the same fate.

of men themselves subject to the same late.

M. Guichard then put on the apparatus, and ran about the field to show the ease with which a man might train the tubing after him over obstacles of no common kind. For this purpose, starting from the stationary cylinders, he first mounted one of the great heaps of coal,

was not easily put out of order, and upon its integrity, of course, the invention mainly depends. If the hose we was not easily put out of order, and upon its integrity, of course, the practical value of the invention mainly depends. If the hose were made of india-rubber only it might double in such a manner were carried round a corner as to cut off the supply of air. Composed it is of india-rubber, strengthened with strong binding wire, any accident of this sort seems to be well nigh impossible. The test was carried so far that people were allowed to step on the tube even when Mr. Applegarth was depending for his life on the supply of air which it conveyed to him. M. Guichard afterwards entered the hut where the fire of charcoal and sulphur was still burning. He did not do any handiwork, but he showed his vitality quite as effectually by shouting so that he could be distinctly heard outside the window. This was peculiarly hazardous. The operator affirst to remove the tube from his mouth, and to take care not to draw breath until he had replaced it, for had he done so he would in all probability, have been a lost man. One object in withdrawing the tube was to show that it might be made temporarily available for the recovery of the exhausted person whom the operator is supposed to have found in the cutting. The air from without, of cours, still streams through the aperture, and it could be directed to the

posed to have found in the cutting. The air from without, of course, still streams through the aperture, and it could be directed to the sufferer's mouth and nostrils for just as long as the operator might be able to hold his own breath.

The next experiments were the more interesting because he who undertook them was well known to everyone present. Mr. Pickard, the men's agent, was the first English miner to test the apparatus, and this he did in a very practical way. After having spent some time in the building containing the noxious vapour he came out, and to show that his supply of air had been ample he ran a considerable distance without removing the mouth-piece from his lips, and showed also by lifting two boys that his energies were by no means showed also by lifting two boys that his energies were by no means impaired, and in other ways, quite intelligible to the men who knew the kind of operations which would be necessary below ground, manifested its unlimited applicability. Mr. Applegarth afterwards explained the machine at considerable length, and illustrated his remarks by pulling to pieces the apparatus which had been in use

explained the machine at considerable length, and illustrated his remarks by pulling to pieces the apparatus which had been in use. The experiments were exceedingly satisfactory throughout, and the representatives of the inventors were heartily congratulated on their success, and thanked for their courtesy to those who had come to witness the experiments. Amongst the suggestions which were the result of the experiment was one that the Coalowners' Association should provide a number of aerophores, and that these should be estationed in convenient places and kept in order and in a continuous control of the control o tion should provide a number of aerophores, and that these should be stationed in convenient places and kept in order and in a condition ready for instant use by men whose special work should be to look after them. Up to the very close of the experiments the utmost interest was manifested in them, and it was noticeable that in nearly all the little groups into which the company occasionally got formed someone was able to tell of his own experience how such an apparatus in times past might have saved men whose lives were lost because they could not be reached, and might have prevented in calculable loss of property.

COAL-CUTTING MACHINERY. For some years past we have strongly advocated the adoption of mechanical means in our mines for detaching the coal from the other strata above it, and we have frequently expressed our regret that colliery owners did not give that attention to the subject which that colliery owners did not give that attention to the subject which its importance seemed to demand. This may have arisen at one time from the fear that any attempt to supersede the work of the miner by machinery would be met by a combined and powerful resistance on the part of the men, as was formerly the case in other businesses. This may have been assumed by many who believed that the colliers had not emerged from the proverbial ignorance which attached to their body up to a comparatively recent period, and that they were still the same uncouth, untractable semi-sarages they were painted 20 years ago. But this, as a rule, is not now the case. There are, it is true, many brutal and ignorant, but the great majority of the hardy underground toilers now know the advantages case. There are, it is true, many brutal and ignorant, but the great majority of the hardy underground toilers now know the advantages of education to themselves and their children, and are profiting by it. Not only are they now giving their children a training in the well-known "three R's," but in the higher branches as well, for very recently we were informed by the President of the South Yorkshire Miners' Association—by the way, one of the best organised Unions in the kingdom—that in his own little village, at no great distance from Sheffield, a visitor would find from 40 to 50 pianofortes and harmoniums belonging to their small community, and with persons capable of playing them well. If, then, the miners' children are brought up in such a manner, we may well feel assured that as they advance in years they will only be too thankful to find appliances. advance in years they will only be too thankful to find applian placed within their reach by which the most fatiguing and dang ous work of the miner (as at present) is done away with. Wea placed within their reach by which the most fatiguing and dangerous work of the miner (as at present) is done away with. We also know that the present race of miners, excepting of course those who are thoroughly saturated with ignorance, would hail with the greatest satisfaction the adoption of machinery that would not only lessen their labour in cutting coal, but would free them from the costant risks they run of being buried by a "fall" of roof or coal, by which more persons are killed in our mines than from any other cause. Indeed, on several occasions we have seen where machines have been introduced, either for the purpose of testing them or for permanent working, the men have shown every disposition to add in every way in getting them into operation. Therefore, we fed certain that the miners will now in no way oppose their introduction, should the colliery owners see fit to take advantage of the various machines now being successfully worked at a few mines. This, we believe, they will before very long be compelled to do, and for obvious reasons. In the first place, it is patent to all persons interested in coal mining that at the present time there is a great searcity of colliers in almost all our colliery districts, whilst the effect of recent legislation has had a decided tendency to lessen rather than increase the number. Such being the actual state of things now existing, we may well ask what will be the position of affairs in the course of a couple of years or so, when a very large number of most extensive collieries will be opened out in all parts of England and Wales, and when thousands of hands will be required to work them? If we take the number of hands at present employed incorproduction of the new collieries now being opened out and those being extended in 1875 to be 12,000,000 tons—certainly a low estimate—we should require, according to the present rate of individual production, an addition of more than 40,000 persons to man all our mines even as they now are. Now, we have no hesitation in sa our mines even as they now are. Now, we have no hesitation in saying that it would be impossible under any circumstances to get anything like that number. Nothing, then, will be left for many of the owners of the new collieries but a resort to machinery. One that is done other colliery proprietors will be compelled to do the same, or they will be placed at a very great disadvantage, seeing that a machine can do as much work in a given time as a dozen and probably at half the cost of th

colliers, and, probably, at half the cost of the manual labour.

Some such views as the above appear to have suddenly dawned upon a body of practical men in the West Riding of Yorkship, where machinery for cutting coal may be said to have been first brought to light. The Midland Institute of Mining Engineers, at their monthly meeting, held at Barnsley on the 3rd inst., no doubt a positive necessity, took the question up in a practical manner. seeing that mechanical means for getting coal would before longa positive necessity, took the question up in a practical mannel
After discussing the matter they appointed a committee "to enquir
into the merits of the various coal-cutting machines," and to report
thereon to a future meeting. It was also agreed that the committe
should have power to expend a sum of money not exceeding 50
whilst prosecuting their enquiries. As the committee will, doubt
leas, be composed of both mining and mechanical engineers we look
conversely with much interest to the result of their labours for the forward with much interest to the result of their labours, field is not only an extensive one, but the enquiry itself cannot but prove highly interesting, whilst its bearing on the future of theosit trade cannot be estimated. Having seen several of the best-known stationary cylinders, he first mounted one of the great heaps of coal, some 30 yards away, ran swittly down on the other side, and turning the base of the hill, came back to the place whence he started, all the time keeping in communication with the cylinders, and, indeed, drawing his supply of air from them. He next worked as a rescuer by prevailing on one gentleman of no slight proportions to lie down, and then dragging him for some little distance along the grass. These experiments showed pretty clearly that the tubing

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all our most important industries depend—our wealth at home, our

all our most important industries depend—our wealth at home, our nower and prestige abroad.

At the present time we believe there are not more than a score of machines in operation at the collieries throughout the kingdom. Those actually at work, however, may be divided into two classes—the pick, which imitates the action of the collierin cutting coal; and the wheel and cutters. The former system, brought out in Leeds reveral years ago, has been greatly improved by the present patentes—Messrs. W. and S. Firin—and several of the machines have for some years been cutting the seams of coal at the West Ardsley Ollieries, between Wakefield and Leeds. Similar machines have also been made and patented by Mr. Jones, of Blaina, and Messrs. Farral and Booth, of Barnsley, but we believe that the inventions of those gentlemen are not now in use. There are several patents for machines consisting of a series of cutters mounted on a periphery of a radial arm. At the present time they appear to be making con-Agrana are not now in use. There are several patents of those gentlemen are not now in use. There are several patents of those gentlemen are not now in use. There are several patents for machines consisting of a series of cutters mounted on a periphery of a radial arm. At the present time they appear to be making considerable headway, for there are orders for them not only for Lancabire and Yorkshire but also for Russia. Amongst the inventors who have given a great deal of time and expended considerable capital in perfecting this description of machinery we cannot overlook he indefatigable Mr. HURD, who, in conjunction with the late Mr. E. SMYSON (one of the proprietors of the Lund Hill Colliery) recently brought out one which has been most successfully tested in the Wigan district, and found capable of cutting 30 yards of coal in the hour to a depth of more than 3 ft. Messrs. GILLOT and COPLEY, of Barnsley, have also been successful in inventing a machine—consisting of a series of cutters mounted on a wheel, and which has been tried at the Wharncliffe Silkstone Colliery, near Sheffield, as well as at other places, and been pronounced a decided success. Messrs. WINTANLEY and BARKER, of Manchester, have also a rotary machine, which is highly spoken of, and, like the others, can be worked in a very thin seam of coal, cutting something like 30 yards an hour to a depth of 3 ft., with a very moderate amount of air pressure. Considerable prominence has of late been given to the machine brought out under the auspices of the Mossrs. BAIRD, of Gartsherrie, and patented by Mr. Gledhill. It has lately been tried in the North of England, and has done all that could be desired, so much so that we understand there are several orders in hand for them. The machines are calculated to cut from 300 to 400 ft. of coal to a depth of 3ft. in an ordinary shift. "The Universal Coal-Cutting Machine" 4 Mr. W. J. Clappe, of Nant-y-Glo, recently noticed in the Mining comes are calculated to cut from 500 to 400 it. of coal to a depth of 3ft in an ordinary shift. "The Universal Coal-Cutting Machine" of Mr. W. J. Clapp, of Nanty-Glo, recently noticed in the Mining Journal, may be exceptionally good in every respect, but we have considered it desirable to mention those inventions only that have been in actual work, for we know from experience that however admirable and feasible a piece of mechanism may be on paper, it very often fails to realise the expectations formed of it when put practical test.

to a practical test.

With the machines we have alluded to the Committee of the Midland Institute of Mining Engineers will, in all probability, confine land Institute of Mining Engineers will, in all probability, confine their observations and enquiry; any one of them, we believe, will be found of incalculable value to the colliery proprietor, if only as regards the economising of labour and the increased quantity of marketable coal they will produce. They will also make the colliery owner more independent of the workmen and boys than he now is. But there will still be plenty to do for the miners, owing to the increased out-put, the fixing of props, and other necessary work, should coal-cutting machines be generally adopted. But, more valuable than all, those who are obliged to look after those vast subterangen excavations miles undergraund in places where the light of valuable than all, those who are obliged to look after those vast sub-teranean excavations miles underground, in places where the light of heaven never penetrates, will find that they will be more secure from accidents than ever they were before. The public, also, cannot fail to be benefted—more particularly our manufacturers—by the in-creased production of coal. We, consequently, look forward with interest to the report of the mining engineers' committee, believing that it cannot fail to be the product to a new era in the history of that it cannot fail to be the prelude to a new era in the history of the coal trade—an era advantageous to the whole community, and calculated more particularly to materially increase our manufac-tures, and add to the comfort of the poorest of our rapidly increasing population.

#### INSPECTION OF MINES.

It is now an admitted fact that the examination of mines by the for snow an admitted fact that the examination of mines by the Government Inspectors since their appointment has been a sheer impossibility, whilst the word Inspector, in its literal sense, has been a misnomer. The Inspectors, indeed, have only been able to visit a colliery when they have been specially sent for, or after the occurrence of some fatal accident, when their advice has been asked for the purpose of securing the stable after the steed had been stolen beyond the power of redemption. Many persons laboured under the impression that the Inspectors were first appointed because it was impression that the Inspectors were first appointed because it was believed they would be able to prevent accidents in mines, instead of becoming the mere recorders of them in yearly reports. But such has not been the case. Yet there is no saying how many lives, and how much valuable property, might have been saved had there been a virtual inspection by properly qualified persons during the last 20 years, had it only been to see that the ventilation of mines was properly conducted, and the rules efficiently carried out. But this could not be done, seeing that some of the Inspectors had more than 400 colliers in their districts. But that a system of inspection by which mines could be visited from time to time by properly qualiwater mines come be visited from time to time by properly quantified persons appointed by Government would be most beneficial, was energetically urged on the part of the working colliers, and the result was that last year power was given to the Home Secretary for the time being to appoint Inspectors in addition to those who had been previously appointed to the charge of districts. These sub-laspectors, as they may be termed, were looked upon as likely to see more after the collieries, and that the provisions of the Act of Parliament were carried out to them in their full intent. Already Parliament were carried out to them in their full intent. Already sariament were carried out to them in their full intent. Already several of them have been appointed; and, judging from what they have already done within a very short period, we believe that with a much larger addition to their number, greater safety will be secured to those engaged either at the top or at the bottom of our mines. There is, consequently, no reason why inspection of mines should not be a reality, instead of a great sham, as it has been hitherto. That increased inspection means increased safety we feel conshould not be a reality, instead of a great sham, as it has been hitherto. That increased inspection means increased safety we feel convinced, and in proof of which we will draw attention to an important case that was heard before the sitting magistrates at Chesterfield a few days ago. The person summoned was Mr. HENRY WALTERS, the manager of the Old Brampton Collieries, belonging to Mr. R. WARD JACKSON, M.P. The first charge was for not having published the Special Rules in a conspicuous place, so that they could be seen by the workmen, as required by the Act of Parliament.

The information was laid by Mr. DICKINSON, the Assistant Inspector for Derbyshire, who, it appears, had visited the colliery on Nov. 10, and found things in anything but the state they ought to have been in. For instance, whilst looking in the engine-house he

have been in. For instance, whilst looking in the engine-house he found that some of the machinery had not been fenced off, so that a person might easily be injured by it. For this offence the maa person might easily be injured by it. For this offence the manager was also summoned, and was convicted on both charges. A third information laid against Mr. WALTERS shows how essential to the safety of the workpeople is a complete system of inspection—the casual visits to a colliery without giving notice. The charge was for allowing gunpowder to be taken down in a canister, instead of in cartridges, as required by the Act, after there had been an explosion in the place. The charge appears to have been admitted; and the manager, in answer to Mr. DICKINSON, said he was not aware that it was in contravention of the law. Yet the was not aware that it was in contravention of the law. Yet the statute is as clear as it can be, for it distinctly states that powder shall only be taken down in cartridges in any mine "during three months after any inflammable gas has been found in any such mine." Now, if a colliery manager is ignorant of a most important clause in the Act of Parliament, and one in which the safety of all persons working in the pit is concerned, what can we expect from ordinary miners? Surely this in itself shows that constant inspection, independent of the colliery officials, is the only safeguard against the recklessness of workmen and subordinates, and the ignorance of some managers. True it is that Mr. WALTERS had to pay nearly 18th for not being willing or able to carry out the Act of Parliament; but what guarantee is there that a similar state of things may not be found at the same colliery a month hence, or at scores of places even at the present moment? The value of actual in-

spection of collieries as a certain means of safety, we think, has been forcibly illustrated by about the first case that has been heard at the instance of the recently-appointed Sub-Inspector of Mines.

Exports of Pig-Iron.—The exports of pig-iron from the United Kingdom in October were 99,479 tons, as compared with 101,607 tons in October, 1872, and 116,878 tons in October, 1871. Germany received the largest share of our pig-iron exports in November—viz., 20,852 tons. The aggregate exports of pig-iron from the United Kingdom in the first 10 months of this year were 996,114 tons, against 1,140,043 tons in the corresponding period of 1872, and 900,911 tons in the corresponding period of 1871. In the total representing this year's exports Germany figured for 230,707 tons, Holland for 234,581 tons, France for 79,072 tons, and the United States for 96,395 tons. The exports have increased this year to Holland and France, but they have decreased to Germany and the United States. The value of the pig-iron exported from the United Kingdom in October was 616,3794, as compared with 598,0714, in October, 1872, and 366,3704 in October, 1871; and in the 10 months ending Oct. 31, this year, 6,211,4134, as compared with 5,616,9654, in the corresponding period of 1872, and 2,750,2894, in 1871.

THE SANDWELL PARK COLLIERY.—The progress making with the important exploratory works which have been so long going on here appear to to be in every way satisfactory, for it was stated at there appear to to be in every way satisfactory, for it was stated at the meeting just held that the shaft had now reached a depth of 307 yards, and it is believed that only from 10 to 12 yards further will have to be sunk before reaching the seam of coal. The increase will have to be sunk before reaching the seam of coal. The increase in cost in working which has taken place has, however, been enormous; sinkers' wages have advanced 117 per cent; winding engineers' wages, 87 per cent; bricks, 44 per cent; lime, 46 per cent; timber, 13 per cent; coal, 116 per cent; slack, 112 per cent; barion, 58 per cent. The existing capital of the company was not sufficient to carry out the working, and, consequently, the directors thought it right to convene a meeting of the proprietors to sanction a further increase of capital. The proprietors reacquising the new further increase of capital. a further increase of capital. The proprietors, recognising the necessity of adopting the course suggested, resolved that the capital of the company should be increased from 20,000t, and that the additional capital be divided into 200 shares of 50t each, to that the additional capital be divided into 200 shares of 300, each, to be called B shares, the original shares being called A shares; that such B shares be issued at such times and in such manner as the directors may determine, but that every member should have the option of taking one B share for every A share held by him; that, in respect of such B shares, the sum of 100, per share shall be payable on allotment, and further calls may be made from time to time at the discretion of the directors, but that no call shall exceed 100, per share share are headed as a power of the product of the theory of the product o or be made payable at an earlier date than three months from the date of the preceding payment.

MINES DRAINAGE ENQUIRY AT WOLVERHAMPTON.—Referring to the area to be brought under the Mines Drainage scheme, Mr. Dowthe area to be brought under the Mines Drainage scheme, Mr. Dow-deswell, the legal arbitrator, reminded certain of the colliery lesses who objected to the inclusion of their district in the drainage area, that with two horses they were doing the work of one, and the public bore the burden. Mr. Vernon said that upon his 2000 acres now let he should lose under the present system coal now worth about a million and three quarters sterling. Before deciding, the Commissioners will go over the district north of the Bentley fault.

THE AMERICAN IRON TRADE. - Statistics compiled by the Ame rican Iron and Steel Association throw some valuable light upon the decided progress which American metallurgy has been making of late years in the production of pig-iron in the American Union in the 20 years ending with 1873 inclusive. The figures, it should be premised, are brought down to November in each year, so that the turn for 1873 extends from December, 1872, to November, 1873:

1854	Tons	736,218		Tons	
1855	*****************		1865		
1856	***************************************	883,137	1866		1,350,343
			1867		1,461,626
			1868		1,603,000
1869	***********	840,627		***************	
1860	***************	919,770			
1861	***********	731,544	1871	*******	1,912,608
1862		787,682	1872		2,830,070
1863		947.604	1873	*****************	2,695,434

The principal proportion of this pig was made with anthracite coal, but a considerable quantity was also made with bituminous coal and coke. The estimated production of iron and steel rails in the United States in 1873 was 850,000 tons, as compared with 947,992 tons in 1872. The construction of railroads has, in fact, received a decided check in the United States. Thus it is computed that only 3000 wiles of new track will be computed this year as compared. 3000 miles of new track will be completed this year, as compared with 6427 miles in 1872, and 7770 miles in 1871. The total probable railroad construction of 1874 is estimated at 3000 miles,

MINING IN CANADA.—The Canadian Copper Pyrites and Chemical Company have just received a large consignment of rich ore from their mines in Canada, and have sold the same on favourable terms. their mines in canada, and have sold the same on havolatolic terms. Owing to the early closing of the shipping season they were unable to get away more mineral last summer, but will be in a position to make very considerable shipments next spring as soon as the season opens. The output from their mines shows a large and steady improvement, both as regards quantity and quality, several important discoveries of new lodes having recently been made, and there is no doubt they will be able to make large and regular shipments of rich or a this country and still leave note than sufficient ore of no doubt they will be able to make large and regular supments or rich ore to this country, and still leave more than sufficient ore of the second class for the extracting works. These have been designed to consume fully 1300 tons of ore per month, and although the foundations were not laid till the beginning of August last, a portion of them are already completed, and in actual operation, and the remainder is rapidly approaching completion. Every precaution has been taken, by the erection of sheds and otherwise, to prevent any interruption of the processes during the winter.

THE MINES OF ASHANTEE.—In the Supplement to this week's Mining Journal we publish a long and interesting description of the Gold Coast and its mines, &c., by Mr. GEO. PEACOCK, F.R.G.S. The paper is a really creditably compiled historical sketch of all that is known of the country of the Ashantees from Biblical times to the present, accompanied by plausible and ingenious suggestions by way of elucidation. He proposes, in conclusion, that, having succeeded in subduing the local potentates, we should promote civilisation by the endowment of public schools, like those at Lagos and other parts of civilised Africa; next, annul their stupid superstitions as to the sacred gold mines and evil genii in mines, inculcate industry, teach sacred gold mines and evil genii in mines, inculcate industry, teach purely unsectarian and natural religion, and prevent the indiscrimi-nate importation of instruments of slaughter, promoting, instead, the introduction of the miners' pick, the shovel, and the hoe.

COLORADO SILVER MINES-THE TERRIBLE LODE.-There never COLORADO SILVER MINES—THE TERRIBLE LODE.—There never was a time, writes our esteemed correspondent, Prof. C. S. Richardson, as the result of his inspection on Nov. 7, when this valuable mine presented such a splendid appearance as it does now, and he has favoured us with an elaborate descriptive account of the mine, with sections of the lode, &c., which we shall publish in next week's Supplement to the Mining Journal. The diagrams embrace a section of ghout 8ft of the lode as seen on the west side at the bottom tion of about 8 ft. of the lode, as seen on the west side at the bottom of the shaft—a cross section of the lode in the back now in working near the engine-shaft, and producing 2½ tons per fathom of very fine close-grained bright ore rich in silver; a section of arborescent formation between the shaft and the first winze, where the vein averages 7 in. of solid ore, one-half of which is first-class, or ore running from 450 to 650 ozs. of silver, and carrying but little zinc, blende with it, and a section of the breast at the end of the level. There has just been found in the fifth level west, just past the swell in the footwall, one of the finest specimens of wire silver ever seen in Colorado. The information will be of peculiar interest to the shareholders.

IRON MINING IN NEW SOUTH WALES.—Advices from Sydney (Nov. 27) state that a recent landslip near to the Fitzroy Ironworks has laid bare two valuable seams of bituminous coal, not known to exist in that locality, one 17 and the other 6ft. thick, with a parting of sandstone between about 4ft. The manager reports that the

works are ready to start, and as soon as this coal can be utilised (by means of the tramway, which by this time will be nearly com-pleted) the works will be in full operation.

NEW QUEBRADA.—Samples of the ores from the mines having been sent for at the request of the recently appointed consulting engineer, Mr. David Forbes, F.R.S., a box of samples indiscriminately selected at the mines has been received and examined by him. He pronounces the result to be most satisfactory. The samples are deposited at the company's offices for the inspection of shareholders.

#### REPORT FROM NORTH WALES.

Ruabon, Dec. 11.-It is satisfactory to note that the collieries of this district have continued in fair activity during the past two months, notwithstanding the tendency here and there to hold orders back from putting them on the market. The requirements of wholesale consumers in its barest form have proved sufficient to sustain operations at the coal industries without causing them to reduce labour, which under other circumstances it might have been deemed necessary to do. The present season is usually a brisk one in the trade, but the weather setting in fair encouraged retail dealers to believe that a reduction in prices was imminent, and in order to hasten so agreeable a change they are reducing their demand, and, in fact, are trying to do without coal altogether. If it be possible for the house trade really to continue to be diminished in this way it will eventually exercise an influence on quotations. But up to the present time the markets on which the mining districts rely are doubly available by the combination of other industries, and so a pass over unfelt.

The unfortunate explosion at the Hafod the week before last is a grievous business, as five of the men have died, leaving one survivor, and he is reported to be in a precarious state. The facts and incidents of the circumstance will be enquired into in the usual way before the Coroner and his jury. It may, however, be mentioned in passing that in cases of this sort the direct cause which gave rise to the accident is shrouded in mystery, owing to the parties who could furnish the required evidence falling victims themselves in the general destruction which takes place, but in the present instance it is alleged that the man in charge of the piece of work where the explosion happened had taken off the gauze of his lamp, and was working with a naked light, when it was prohibitory for him to do so. The mishap has made something like a panic with some people, because the Hafod is one of the largest collieries in the district, employing from 600 to 700 men underground, and is considered a well-regulated works. a well-regulated works.

a well-regulated works.

There is a rumour that the services of a local lawyer have been secured to act for the representatives of the deceased in all their cases; but the Hafod Company have doubtless got their hands full, without being driven to defend themselves at law, without any breach. The proprietors are in quite as much distress of mind on account of these calamities as the warmest friends of the sufferers can be. But if what is asserted be true the case must end in enjoing on every warment to keep the learn with which he is provided.

and so. But what is asserted be true the case must not all provided against fire-damp absolutely intact.

The People's Coal and Colliery Company have just completed the purchase of the Plas Benion Colliery, and it is announced that coal from their works will be sold in London for 23s. 6d. per ton, to shareholders of course. The basis of this company differs from most others, because they produce and sell the commodity to themselves. others, because they produce and sell the commodity to themselves, and thus there is introduced a feature which appears somewhat contrary to the full scope of that free trade which developed so effecand thus there is introduced a reature winch appears somewhat contrary to the full scope of that free trade which developed so effectively the resources of trade throughout the land. The ticklish peculiarity is this will the relationship of the producer remain the same to the consumer under all the vicissitudes to which coal mining is naturally liable?

#### REPORT FROM SCOTLAND.

Dec. 10.—The Warrant Market became decidedly firmer at the end

Cr. M. D., at (		verable alongsid				
Gartsherrie	ditto	ditto	114	0	107	6
Coltness	ditto	ditto	116	0	108	6
Summerlee	ditto	ditto	112	6	106	
Carnbroe	ditto	ditto	110	0	106	6
Monkland	ditto	ditto	107	6	105	6
Clyde	ditto	ditto	107	6	106	
Govan, at Bro	omielaw	ditto	107	6	106	0
Langloan, at	Glasgow	ditto	112	6	106	
Calder, at Por	rt Dundas.	ditto	115	0		6
Glengarnock.		ditto	110			
Eglinton		ditto	107	6		0
Dalmellington		ditto	108		106	0
Carron, at Gr	angemouth,	elected, ditto			-	
Shotts, at Lei	th	ditto	112	6	107	
Kinneil, at Be	oness	ditto ditto	107	6	104	
Bar iron			£	13 0		-
Nail rods				13 0		
Week ending	Dec. 7, 1872	SHIPMENTS.		Tons	12.9	11
Week ending	Dec. 6, 1873		**************		9,1	38
H con cading	2000 0, 1010.			**********	-,-	-
Decrease					3.7	73
Total decrease	a since Dec 2	5, 1872			222 0	
		r-iron into Gran			,,,,	00
Week ending	Dog & 1873		gemouth.	Tone	1.9	60
Week ending	Dec. 7, 1879			LOMO	3	50
week ending	Dec. 1, 1012.					00
Inorone	•				1.6	10
Total ingress	for 1979		*************	*********	95.1	

The Malleable Iron Trade is marked by the uncertainty which pre vails when prices are subject to fluctuations; and we hear that the whole of the hands at Blochairn have been notified that their engagements may be terminated on a day's notice. The object of this notification is to leave the company at liberty to deal with the wages question unencumbered with engagements if any difficulty should occur at the close of the year. A number of the works are working from hand-to-mouth, and smaller prices are being taken for limited orders. Machinists breasfounders and copper worksragare well engagements. orders. Machinists, brassfounders, and copper workers are well employed. The shipments from the Clyde are diversified and small, but we notice the shipment of parts of a steamship (complete) to Bremen from Greenock of the value of 85,000%.

The shipments of coals from the Scotch ports for the week just aded amounted to 38,738 tons, against 34 596 tons in the same week of 1872. Although these figures show an increase on the week over that of last year, still prices are weaker, and a decline of fully 2s. a ton is readily submitted to for orders of a few hundred tons. The miners, however, are doing the best they can to prevent the accumulation of stocks; and at a mass meeting, held at Motherwell, the miners' agent, Mr. Browne, gave them this advice—which was accepted and acted upon—that they should—
"Work eight hours a day, and six days a week, even sacrifice your monthly idle day if that is required to supply the demand, and you can get plenty of wagons, but on no account bling. If no wagons are forward when you go to your work in the morning, turn on your heel and go home to bed."

To their beds they too frequently go, as there is a scarcity of wagons from the causes formerly noticed; but as Mr. Smithells, the general manager of the Caledonian Railway, has issued the following circular to coalmasters, traders, and others, a change must take place speedily: of 1872. Although these figures show an increase on the week over

them and greatly inconveniencing the traffic of the railway, and also causing complaints from the public, which would be obviated were wagons used in the manner the company have a right to expect. A large sum of money is now owing to the company for demurrage, which the traders who have incurred it decline to pay, and the directors have instructed the company's solicitor to proceed against the parties for the recovery thereof. They have also decided not to supply empty wagons to traders who at the time of applying for them are 'binging,' or' storing,' coal in the company's wagons, or otherwise improperly detaining wagons under load, and that they will withhold the supply of empty wagons to such parties so long as other wagons are improperly kept under load by them. The wagons upon the railway at the present time are sufficient for the requirements of the coalmasters and traders if only used as they ought to be, and as they were always intended to be, for the conveyance of their traffic upon the railway, and the directors are determined that henceforth they shall only be so used. The company cannot suffer more from adopting the measures now decided upon, to ensure wagons befing properly used, than they have hitherto suffered from the unjustifiable detention of them under load. In future, therefore, traders desiring to 'bing,' or 'store,' coal in wagons must provide their own for that purpose, but on the understan 'ing that they must be kept upon their own sidings until the traffic they contain is required by the consignees, and that they are not to stand upon the company 's sidings, those sidings being intended for the dispatch of traffic, and not for the storing of wagons under load for an indefinite time. I have further to intimate that from this date demurrage at the rate of 3s. per wagon per day will be charged on wagons belong ing to this company remaining under load beyond two days, and standing room, at the rate of 1s. per wagon per day, on traders' wagons remaining under load upon the company's sidings b

enforced."

DUTCH PEAT FUEL.—In an interesting paper on this subject, read before the Edinburgh Geological Society by Mr. Ralph Richardson, the secretary, the writer referred to the extensive use made of peat fuel in Holland, which he had visited last summer. He stated that fuel in Holland, which he had visited last summer. He stated that far greater supplies of peat existed in the United Kingdom than in the Netherlands, and it would be well, he said, especially during the present coal famine, if these supplies were turned to purpose. Mr. Parker Rhodes brought under the notice of the meeting the peat coal made by the Peat Coal Charcoal Conjany, which has obtained the right to manufacture this coal on Mr. Challetonde Brughat's system. The fires in the room were lighted with this coal, which Mr. Bhodes said could be sold in London at 20s. a ton. For domestic use it had advantages over ordinary coal in respect of want of smoke, the length of time which it kept burning, and otherwise. Mr. Dudgeon Cargen referred to the system of manufacturing the peat fuel by Clayton's patent, and several others took part in the discussion.

LAUNCH OF A PACIFIC MAIL STEAMER.—The largest merchant LAUNCH OF A PACIFIC MAIL STEAMER.—The largest merchant vessel ever built on the Clyde, and the second largest in the country, being next to the Great Eastern, was launched on Saturday afternoon from the building yard of Messrs. Elder and Co., and was named the Iberia. The vessel, which is a screw-steamer of 4390 tons gross, is constructed for the Pacific Steam Navigation Company. Her engines will be 650-horse power nominal. The vessel will be barque rigged, and will have iron masts, and for the convenience in the loading and discharging of cargo five powerful steam-winches have been fitted up. She is also fitted with steam steering-gear and steam-winches have been fitted up. She is also fitted with steam steering-gear and steam-winches have been fitted up. When finished, she will be fitted up in a very handsome and elegant manner, having accommodation for 140 first-class, 50 second class, and 800 third-class passengers. Extensive accommodation is also provided for the officers and crew, 120 in number.

#### TRADE OF THE TYNE AND WEAR.

Dec. 11.-The general trade only of this district has been flat of late; it is, however, remarkable that the Steam Coal Trade continues very buoyant: it has been a fine season for exporting, and an excellent demand continues for this class of coal. All the collieries about Blyth are in full work. House, gas, and manufacturing coals are getting more plentiful, and at many works stocks are accumulating; in West Durham it is not at all uncommon to find a heap of coals containing a few thousand tons; it must, however, be noticed that this is owing in some cases to a deficiency in rolling stock, the vast expansion of the iron trade of the district, and consequent increase in the coal and coke trades, having taxed the resources of the

crease in the coal and coke trades, having taxed the resources of the railway companies to the utmost.

The demand for Coke continues good, and prices have not fallen much. First-class coke, however, can be bought for 30s, per ton, and inferior sorts at 27s, per ton. The South Durham coke is largely consumed at Middlesborough, and is in high repute in Cumberland. Cleveland is now consuming upwards of 50,000 tons per week of this coke for ironmaking, and Cumberland and Lancashire consume upwards of 15,000 tons per week.

upwards of 15,000 tons per week.

At Middlesborough, on Tuesday, the demand for Pig-Iron ge At Markets and the first and prices ruled rather firmer. The highest price touched by No. 1 was 95s., and No. 4 is now 80s. The stock has increased last month to the extent of 4000 tons. The demand for rails and all kinds of finished iron continues very flat and mand for rais and all kinds of missied from continues very nat and entirely devoid of animation, and prices are consequently drooping. A large amount of pig-iron continues to be sent to Scotland. From the Cleveland Ironmasters' Association return it appears that at the end of November there were in blast 132 furnaces, only 7 furnaces being out of blast, and there are 19 furnaces now in course of erection. The make of pig-iron during the month was 170,512 tons, against 165,822 tons in November, 1872, showing an increase of 4690 tons in the make, the total stock of pig-iron held at that time being 63,302 tons, and as the make is engranus this stock is of little 4690 tons in the make, the total stock of pig-iron held at that time being 63.302 tons, and as the make is enormous this stock is of little consequence. The Iron and Coal Trades in Cumberland have shown decided signs of weakness lately, and lears are expressed by many that the tide has turned. Coals are more plentiful, and, consequently, can be had in many cases on easier terms. The demand for iron has also been much weaker, and prices are drooping.

MINING INSTITUTE.—An ordinary meeting of the members of the Mining Institute was held in Newcastle, on Saturday, Mr. R. S. Newall in the chair. After some ordinary business had been transacted, Mr. J. B. Simpson read a paper on "Natural Shifts in the Coal Min so of Belgium," translated from the French of MM. Cornet and Brian. The Secretary also read a paper on "Raising Coal from Great Depths by means of Atmospheric Pressure," on the system of Mons. Z. Planchet, translated from the French.

SALE OF THE TRIMDON COLLIERY.—The proprietor of the extensive collegy at Trimdon, South Durham, has just disposed of it to a London company which has recently been established, with a capital of 105,000%; the property to be transferred next May.

#### REPORT FROM NORTH AND SOUTH STAFFORDSHIRE.

Dec. 11.—The Iron Trade of South Staffordshire remains in the same unsettled and unsatisfactory condition as described a week ago. The uncertainty as to the future course of prices restricts the operations of buyers, and makers are cautious about booking orders until the rate of wages for the next quarter is definitively settled. At a meeting of the Conciliation Court to be held to-morrow (Friday) aftermore a grapesal will be submitted fixing the wages rate on the ing of the Conciliation Court to be held to-morrow (Friday) aftermoon a proposal will be submitted, fixing the wages rate on the basis of 12s, 6d. per ton for puddling, being a reduction on the present scale of 9d. per ton. This rate, it is proposed, shall be in force for the first three months of next year, and that afterwards the rate shall be 1s, per 1l. per ton on the selling price of iron in the South Staffordshire and the North of England districts; 8s. 6d. per ton to be the minimum, and 12s. 6d. the maximum rate. The result of the deliberation will probably not be made known in time for publication in this week's Journal, but little anxiety is felt as to the matter being amicably arranged. Quotations for iron, although nominally the same, are practically much easier, second qualities both of pig the same, are practically much easier, second qualities both of pig and finished iron being pressed for sale. All-mine (hot-blast) pig stands at 7l. 19s.; part-mine ditto, 6l. to 6l. 5s.; and cinder, 4l. 19s. to 4l. 15s. per ton. Hematite and other North Country pigs are offer-ing in this district at 5s. to 19s. below the rates ruling three months ago. Finished iron remains on the basis of 14l. for marked bars, and 13l. for second-class ditte; but orders have been placed for com-mon bars as low as 12l and even slightly under that figure. Sheets

partial operation of the ironworks is estimated at 20,000 tons per eek, but this is counterbalanced by a corresponding reduction in the output.

the output.

Shares in local coal and iron companies are quoted on the Birmingham Stock Exchange as under:—Sandwell Park Colliery, 150, buyers; Cannock and Huntington Colliery, 2½; Chillington Iron, 7½, sellers; John Bagnall and Sons, 10½, sellers; Patent Nut and Bolt, 2 prem., buyers; Patent Shaft and Axle, 3½ prem., sellers.

The miners in the South Staffordshire district are taking prelimination of the properties of Court of Arbitration and Consilion.

nary steps in the formation of a Court of Arbitration and Concilia-tion, similar to that established with so much success in the coal trade of the same district.

In North Staffordshire the quotations for finished iron remain upon the basis of 12l. 5s. for crown bars. The business doing just now is, however, of unimportant extent. Most of the finished ironworks are in partial operation. Some are running short time, and others have their puddling-furnaces laid off. It is not expected that there will be any change of importance in the condition of trade until the turn of the new year.

#### REPORT FROM CORNWALL.

Dec. 11.—The official announcement of a drop in the tin standard, which was foreboded in some quarters last week, has not yet been made; and, possibly, though things are very dull, we may be spared this infliction. There is not likely to be much doing in mining circles for the next week or two, We have arrived at a time of year when matters agricultural naturally attract the largest amount of notice, and when ploughing matches, cattle shows, and Christmas markets pretty well monopolise public attention. Several prominent country gentlemen have been presiding at these meetings recently, and mining has not been altogether forgotten, but with the exception of the confidence expressed that the mines rating question will be settled next session there is not much that calls for comment.

Dr. Le Neve Foster, the Government Inspector of Mines for Cornwall and Dayon took a very wise and useful star the other day. An

wall and Devon, took a very wise and useful step the other day. An "accident" recently happened at East Pool Mine, in which a lad was blinded for life by the explosion of a hole that had missed fire, and which he and another lad were "boring out." This is forbidden by the Act, and Dr. Foster took the opportunity of explaining to the men assembled at East Pool setting exactly what the provisions of the law were.

Attention has been called to the fact that there is still a want, in spite of the large returns, of labour in our mining districts. Week by week the Cornwall Minerals Railway, and the Devon and Corn-wall line to Lidford, are advertising, almost imploring workmen to come and assist in making these lines. Certainty of employment, good wages, with lodgings provided, and good and cheap living, are among the attractions set forth. It seems marvellous, under such circumstances, that Cornishmen, whose services in their native mines will, perhaps, be required again before long should export them-selves either to the coal pits of Northumberland or across the ocean. It is the old story—those things which are most distant look most

It is the old story—those things which are most distant look most attractive, perhaps because the exaggerations of plausible stories are not so easily detected when they relate to far-off regions.

North Caradon has turned up again. On Tuesday, at the Manchester Assizes, the trial of Edwin Harvey Wadge on a charge of obtaining money under false pretences and of conspiracy, was resumed before Mr. Baron Pollock. The prisoner had been connected with the North Caradon mining venture, in connection with which it was stated that he had grossly swindled. One of the prisoner's confederates, Gibson by name, was tried a few years ago and sentenced to five years' penal servitude. Wadge had since kept out of the way, and on his return to London was apprehended. He was found guilty, and sentenced to five years' penal servitude.

#### REPORT FROM DERBYSHIRE AND YORKSHIRE.

Dec. 11.—At the lead mines at Eyam, Castleton, and the higher districts business goes on steadily, there being very little speculation going on Some of the small concerns worked by miners realise very little more than ordinary wages. There is decidedly less activity at the collieries in both North and South Derbyshire, but the business doing with London is not so good as is usual towards the close of the year, so that prices have come down considerably. A less tonnage than usual has gone from Clay Cross of late, as well as from other collieries. The trade around Eckington continues very fair, and an average quantity of coal is being raised at the Renishaw Colliery, which has just changed hands. On the Erewash Valley line business is moderately good. The pits at Langley Mill, Codnor Park, Shipley, and Pilsley are doing very well. In some of those places there has been a discussion as to the desirability of carrying out the sub-section of the 51st clause of the Mines Regulation Act, which gives power to the workmen in any coal mine to appoint two Dec. 11.-At the lead mines at Evam, Castleton, and the higher out the sub-section of the first clause of the Mines Regulation Act, which gives power to the workmen in any coal mine to appoint two of their number "to inspect the mine at their own cost, and the persons so appointed shall be allowed once at least in every month to go to every part of the mine, and inspect the shafts, levels, working places, return air-ways, ventilating apparatus," &c. At some places this is being carried out, but at others such confidence is reported in the manager that the men have agreed not to take the corres which the Levislature has given them. The Stayeley Works ported in the manager that the men have agreed not to take the power which the Legislature has given them. The Staveley Works are doing a very good trade in foundry material, whilst a large quantity of coal is being sent from the pits of the company to London, Birmingham, and the West of England. There is no decrease in the production of pig-iron, despite the quietness of several places where the Derbyshire pig is largely used. The foundries are doing very well, there being a good demand for pipes, girders, plates, and rails, as well as for stoves and grates. At Dronfield the Messrs, and rails, and well as for stoves and grates. At Dronfield the Messrs, and shovels, for which the firm has long been noted. At their collieries, however, there has been some disagreement relating to prices, but it is in a fair way of being settled. At other collieries also the however, there has been some disagreement relating to prices, but it is in a fair way of being settled. At other collieries also the weights question has cropped up, the men, since joining the Miners' Association, considering that they are backed by a power which renders resistance on the part of the masters altogether futile. Messrs, Wilson and Campbell are turning out large quantities of Bessemer, and rolling it into rails.

There has not been much alteration in the Sheffield trades. The authors become have slightly imprayed but still there is nothing

There has not been much alteration in the Sheffield trades. The cutlery branches have slightly improved, but still there is nothing like activity with respect to them. The rail and plate mills are kept fairly going. The Bessemer works are doing fairly. Makers of malleable castings are doing very well, the vast establishment at Kelham being well supplied with orders, whilst the casting and machine works at Meadow Hall are also doing very well. The Coal Trade is very quiet, and it is evident that if the men continne at work prices must come down considerably, seeing that many colliery proprieters have as much as ever they can do to keep their men fully employed, and to avoid large accumulations of coal on the pit hills, whilst others are actually obliged to have recourse to short time. Our decreasing exports, owing to some of our formerly best customers, like Germany, Russii, and British India, opening out their own vast mineral resources, all point to the numistakeable fact that the time is fast approaching when we shall have more coal than we require, and when not only prices but wages will have to come down considerably. We shall then also see the collapse of many of those colleries comago. Finished iron remains on the basis of 14th for marked bars, and 13th for second-class ditto; but orders have been placed for common bars as low as 12th, and even slightly under that figure. Sheets (singles) range from 14th to 15th for ordinary, and in the usual proportion for lattens and doubles. In the quotations for galvanised roofing sheets the same irregularity prevails which has been for some time noticeable. The business doing just now in finished iron is of unimportant extent, and it is improbable that many orders will change hands before Quarter-Day.

Some interesting experiments with the Burleigh rock-drill were made on Saturday, at the limestone pits of Earl Dudley, in Castle Fields. The experiments, which were witnessed by Earl Dudley's agent (Mr. Fisher Smith) and others, were superintended by Mr. W. Cobb. A hole 24 in. deep was bored in a piece of limestone in 16 minutes, and another of the same depth in a piece of Rowley Tagstone was completed in an equally short time.

The Coal Trade of South Staffordshire shows less tendency towards ease than was observable a fortnight ago, and it is now considered in many quarters improbable that the predicted reduction in price will take place before quarter-day. In certain cases coal of second quality is being offered at slightly reduced rates, but the reduction in price will take place before quarter-day. In certain cases coal of second quality is being offered at slightly reduced rates, but the reduction in or from a not propose, being offered at slightly reduced rates, but the reduction in price will take place before quarter-day. In certain cases coal of second quality is being offered at slightly reduced rates, but the reduction in or from the ordinary strange that no persons acquainted with the alternative to include the subject sent to your correspondent will be acknowledged. It is possible that such a collection of the many orders to be directed to the collieries, near the many orders to be directed to the collieries nearling local to the metropo

able to sell from 6s. to 7s. per ton less than other proprietors is another myst unless from a pure spirit of philanthropy, and to show that profit is not their object.

#### REPORT FROM MONMOUTH AND SOUTH WALES.

REPORT FROM MONMOUTH AND SOUTH WALES.

Deg. 11.—The Iron Trade still remains in much about the same state as for some time past, so far as actual business is concerned, but the improved feeling noticed a week ago still pervades the market, and manufacturers are looking forward to an early revival in the trade. The probability is, however, that the end of the year being so near there will be no material change in the state of things this side of New Year's Day; but as the new year opens it is expected that the Finished Iron Trade will gradually recover its wonted activity. That buyers have orders to give out there does not appear to be any doubt, but they still seem to hold aloof from transactions as much as possible, with the hope of being able to purchase at lower prices. This disposition is indicated by the fact that wherever makers will make concessions purchasers are immediately found to respond by entering into transactions. It must be repeated, however, that it is impossible that prices can be lowered to any extent at any time unless wages and the cost of pig and fuel are reduced considerably. It is not a little discouraging to see what small quantities of the railway iron manufactured in this district have been for warded to the United States of America, month after month, during the year now ending. And what is yet more discouraging is that there is little probability at present that the year 1874 will be any better in this respect. There appears to be a strong feeling growing up on the west side of the Atlantic against the importation of English or Welsh finished iron, and American makers will lose no opportunity to increase that feeling. So it is to be apprehended that America will never again be so important a stay to the rail trade of South Wales as she has been. Fortunately, Russia is again a large purchaser in this district, and it is likely that as soon as the winter season is over there will be some extensive orders for steel and iron rails to execute on Russian account.

At the Landore Steelwor

whiter season is over there will be some extensive orders for steel and iron rails to execute on Russian account.

At the Landore Steelworks, which establishment has, perhaps, been the most actively employed of any in the district during the last six months, things are now beginning to "turn up rough." It is not, however, through a lack of orders, but owing to a dispute which has arisen between the masters and the men in regard to wages, and a good many of the men are on strike.

Haunily at last there appears to be a little improvement is the strike of the strike of the strike.

rages, and a good many of the men are on strike.

Happily at last there appears to be a little improvement in the in-plate Trade, and makers are preparing for a more active trade ext year than they have experienced this year.

The Coal Trade continues to be the most active of the staple trades

The Coal Trade continues to be the most active of the staple trades of this district. For steam qualities a brisk enquiry is kept up on account of the foreign markets, and prices are maintained. To this trade undoubtedly the prosperity of the district is mainly owing. The colliers continue to work with appreciable regularity, and the output being large proprietors are enabled to carry on a very extensive business. The prospects for the new year are good. The enquiry for house coals is increasing with the severity of the weather.

WEST ESGAIR LLE.—This mine continues to improve as the lode WEST ESGAIR LLE.—This mine continues to improve as the lode becomes more developed, and good ore ground is being laid open, which can be stoped away by-and-by at a great profit. At the eastern mine driving east and west by the side of the lode in the 24 fm. level has been pushed on. From present appearances the lode will turn out richer than when last reported on (60%, per fm.) when it is next taken down. The levels above are full of ore, but hands are short for the moment. At the western mine dressing has been going on throughout the week, the slight breakage to the machinery reported last week having been re-paired in 24 hours. All the various points are looking the same as usual, and pro ducing their customary quantities of ore. The weather continues fine and open for surface works.

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wich the Property has extensive frontages, the total Mineral area being 32½ on the property is eligibly situated in the immediate neighbourhood of extensive free property is eligibly situated in the immediate neighbourhood of extensive in the property is eligibly situated in the immediate neighbourhood of extensive in the present state of the coal trade is a very desirable acquisition. The frick coal in the western part of the estate has been partially gotten, but the first pillars and other unineral seams (excepting a small part of the Heathen of an and by a fault from the western portion, the mines are untouched, and it is gearted that it contains about 15 acres of SOLID THICK or TEN-YARD COAL. The PLANT comprises two good STEAM ENGINES for winding and pumping, whish all to 9½-in. pump-trees in good order. The vigorous operations now being carried on in the Whyley and Cutlers End Colliers, will almost entirely relieve it of water; the remainder may be easily disable the pumping plant on the estate. Plans and particulars, and other information, may be had of Messrs. Palmer, 803, and Broot GHITON, solid other information, may be had of Messrs. Palmer, 803, and Broot GHITON, solid other information, may be had of Messrs. Palmer, 803, and Broot GHITON, solid other information, may be had of Messrs. Palmer, 803, and Broot GHITON, solid other information, may be had of Messrs. Palmer, 803, and Broot GHITON, solid other information, may be had of Messrs. Palmer, 803, and Broot GHITON, solid other information, may be had of Messrs. Palmer, 803, and Broot GHITON, solid other information, and STEEL WORKS, lam; and at the place of sale.

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developed.

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TO MERCHANTS, STOCKBROKERS, AND OTHERS. TO BE LET, in the best part of Bishopsgate-street, nearly opposite the National Provincial Bank and the Baltic, COMMODIOUS and WELL LIGHTED OFFICES, in ST. HELEN'S CHAMBERS, a large building ow approaching completion. For terms, apply to Messrs. Frances, Architects, Palmerston-buildings, 34, Ole road-street, where plans may be seen.

TO BE SOLD. BEAM ENGINE, 164 inch cylinder, high pressure or condensing, in good working trim, with foundation stones, complete.

PORTABLE ENGINES, for SINKING, MINING, or GENERAL PURPOSES, from 10 to 30-horse power, IN STOCK, or in PROGRESS OF CONSTRUCTION.
Full particulars on application to

BADGER AND SON ENGINEERS, ROTHERHAM

FOR SALE (ready for delivery), a high-class 18-horse power PORTABLE STEAM ENGINE, with reversing gear, suitable for winding.

ig, &c.
a 25-horse power, with or without PIT WINDING GEAR.
SALE, SEVERAL SECONDHAND PORTABLES, with NEW MORTAR,
5 to 9-feet pans. nbined VERTICAL ENGINES and MILLS for GRINDING SLAG

Also, combined VERTICAL BAND, &c.
BARROWS AND STEWART, ENGINEERS, BANBURY.

NEW PAIR 8-in, HORIZONTAL WINDING ENGINES,—WHEATLEY KIRK and PRICE, Manchester.

NEW PAIR 121/4-in. HORIZONTAL WINDING ENGINES, WHEATLEY KIRK and PRICE, Manchester. NEW PAIR 14-in. HORIZONTAL WINDING ENGINES.
WHEATERY KIRK and PRICE, Manchester.

NEW PAIR 161/2-in. HORIZONTAL WINDING ENGINES.
WHEATLEY KIRK and PRICE, Manchester.

WHEATLEY KIRK AND PRICE, MANCHESTER,

In the Court of the Vice-Warden of the Stannaries. Stannaries of Cornwall

Stannaries of Cornwall.

In the MATTER of the COMPANIES ACTS, 1862 and 1867, and of the FORTESCUE TIM MINING COMPANY (LIMITED). — Notice is hereby given, that a PETITION for the WINDING-UP of the ABOVE NAMED COMPANY by the Court was, on the 5th day of December instant, presented to the Vice-Warden of the Stannaries, by John Derry and James Derry, trading in co-partnership at 8t. Austell, within the said Stannaries, as Merchants, under the style or firm of "John and James Derry," creditors of the said company, and that the said petition is directed to be heard before the Vice-Warden, at 3, Onslow-square, Brompton, London, on Monday, the 22nd day of December instant, at noon. Any contributory or creditor of the company may appear at the hearing and oppose the same, provided he has given at least two clear days' notice to the petitioners, their solicitors, or their agents, of his intention to do so, such notice to be forthwith forwarded to P. P. Smith, Esn., Secretary of the Vice-Warden, Truro. Every such contributory or creditor is entitle to a copy of the petition and affidavit verilying the same, from the petitioners, their solicitors, or their agents, within 24 hours after requiring the same, on payment of the regulated charge per folio.

Affidiative intended to be used at the heaving in conscition to the restition must.

within 24 hours after requiring the same, on payment of the square folio.

Affidavits intended to be used at the hearing, in opposition to the petition, must be filed at the Registrar's Office, Truro, on or before the 18th day of December inst., and notice thereof must, at the same time, be given to the petitioners, their solicitors, or their agents.

HODGE, HOCKIN, AND MARRACK, Truro, Cornwall (Solicitors for the Petitioner).

GREGORY, ROWCLIFFES, AND RAWLE, of Bedford-row, London (Agents of the said Solicitors).

Dated Truro, December 9th, 1873.

Stannaries of Cornwall. N the MATTER of the COMPANIES ACT, 1862, and of the WHEAL KITTY (LELANT) MINING COMPANY.—The Registrar of this Court has appointed MONDAY, the 22nd day of December instant, at Eleven oclock in the forenoon, at his office, in Truro, TO SETILE the LIST of CONTRIBUTORIES of the ABOVE-NAMED COMPANY, now made out and deposited at the said office.

Dated Registrar's Office, Truro, this 11th December, 1873.

In the Court of the Vice-Warden of the Stannaries.

In the Court of the Vice-Warden of the Stannaries. Stannaries of Cornwall.

MATTER of the COMPANIES ACT, 1862, and of the N the MATPER of the COMPANIES ACT, 1802, and of the PolicreBo Mining company. Notice is hereby given, that ALL CREDITORS of the ABOVE-NAMED COMPANY are required, on or before the loth day of January next, TO SEND IN their NAMES and ADDRESSES, and the AMOUNTS and PARTICULARS of their SEVERAL CLAIMS, to FREDERICK MARSHALL, Esq., the Registrar of the said Court at Truro.

FREDERICK MARSHALL, Registrar.

Dated Registrar's Office, Truro, this 11th day of December, 1873.

In the Court of the Vice-Warden of the Stannaries, Stannaries of Cornwall

IN the MATTER of the COMPANIES ACT, 1862, and of the POLCREBO MINING COMPANY.—By an Order made by His Honor, the Vice-Warden of the Stannaries, in the above matter, dated the 10th day of December instant, on the petition of John Banfield, of Ilfracombe, within the Stannaries of Devon, Gentleman, a contributory of the said company, IT WAS ORDERED that the POLCREBO MINING COMPANY be WOUND-UP by this Court under

the provisions of the Companies Act, 1862.

HODGE, HOCKIN, AND MARRACK, Truro
(Solicitors for the Petitioner).

Dated Truro, this 11th day of December, 1873.

In the Court of the Vice-Warden of the Stannaries. Stannaries of Cornwall.

Stannaries of Cornwall.

N the MATTER of the COMPANIES ACTS, 1862 and 1867, and of the NEW HINGSTON TIN MINING COMPANY (LIMITED).—ALL CREDITORS or CLAIMANTS of the ABOVE NAMED COMPANY who have not received notice from the Registrar of the said Court that their claims have been already admitted, are hereby required to COME IN and PROVE their SEVERAL DEBI'S or CLAIMS at the Registrar's Office, Turo, on Saturday, the 20th day of December inst., at Eleven c'elock in the forenoon, or in default thereof they will be EXCLUDED from the BENEFIT of any DISTRIBUTION made before such proof. And for the purpose of such proof they are either to attend in person, or by their solicitors, or competent agents, or (unless such attendance be required by the Registrar's summons) they are to send affidiavits of their several debts or claims to the Registrar of the Court at Truro, such affiadavits being sworn either before some Commissioner of the said Court, or any Commissioner of one of the Superior Courts lawfully authorised to take and receive afficiavits and affirmations.

FREDERICK MARSHALL, Registrar.

Dated Truro, the 11th day of December, 1873.

HAYLE, CORNWALL.
IMPORTANT SALE OF A VERY VALUABLE COPPER MINE.

IMPORTANT SALE OF A VERY VALUABLE COPPER MINE.
The LEASEHOLD ESTATES, known as the

MELLANEAR COPPER MINE,
Situate in the parish of ST. ERTH, HAYLE, in the county of Cornwall, held for
terms, of which it to 19 years are unexpired, at unusually low dues, the fixed
an Solin, whole It to 19 years are unexpired, at unusually low dues, the fixed
an Solin, whole PUMPING ENGINE, at 76-in, cylinder PUMPING ENGINE, a 76-in, cylinder PUMPING ENGINE, a 31-in, cylinder PUMPING ENGINE, at 76-in, cylinder PUMPING ENGINE, with steam capstan, &c., at 18-in,
retury STEAM ENGINE, with steam capstan, &c., at 18-in,
retury STEAM ENGINE, at 19-in, pumps, 80-fms, 29-in, pumps, two 60-ft,
shears, with sheaves, 39-ft, water-wheel, with 2 it, breast and crusher, complete,
150-fms, 14-in, capstan rope, 2/2-tons wire tope, and all necessary pitwork, &c.,
WILL BE SOLD, BY AUCTION, BY

MILE BE SOLD, BY AUCTION, BY

Tokenhouse-yard, London, E.C., on Monday, December 22, at One in the Auction Mart, Tokenhouse-yard, London, E.C., on Monday, December 22, at One in the flatenoon precisely. The mine is now being worked, and its reserves of ore haven estimated to be worth £30,000, and it presents an unusual opportunity to capitalist or company for acquiring a valuable productive and profitable minin property.

property.

Particulars and conditions may be had of H. Wilson, Esq., the Liquidator, Bai tholomew House, Bartholomew-lane, in the City of London; at the Royal Hote Truro; Tabb's Hotel, Redruth; of Capt. Moyle, at the mine, near Hayle; of A PULBROOK, Esq., solicitor, 28, Threadneedle street, London; and of the Auctioneers 7, Poultry, and 37, Bucklersbury, London, E.C.

NOTICE.

TIPTON GREEN COLLIERY, STAFFORDSHIRE.

POSTPONEMENT OF SALE

POSTPONEMENT OF SALE.

THE SALE of the above IMPORTANT MINING ESTATE is POSTPONED from Thursday, the 11th day of December, 1873, to THURSDAY, the 22nd day of January, 1874, at the Chamber of Commerce, the Exchange, New-street, Birmingham, at Three c'lcck in the afternoon for Four to the minute. Plans and particulars may be obtained of Mr. John Harvey, the Agent, at the Tipton Green Colliery Offices, Tipton, who will show the property: from S. Sporforh, Esq., Solicitor, 31a, Great George-street, Westminster: Mesers. Harwadde, Shepherd, and Mills, Solicitors, Stourbridge; Mr. E. SMALLMAN, Mine Agent, King's Hill, Wednesbury; or of—MESSRS. CHESSHIRE AND GIBSON, Auctioneers, Birmingham.

SOUTH STAFFORDSHIRE.

IMPORTANT SALE of a VALUABLE MINING ESTATE, known as TIPTON GREEN COLLIERY,

TIPTON GREEN COLLIERY,
TIPTON, including a surface area of about 70 acres, and a mining area of nearly
100 acres, with the UNGOFFEN MINES of COAL, IRONSTONE, FIRE-CLAY,
and LIMESTONE thereunder, and the valuable fixed COLLIERY PLANT,
PUMPING and WINDING ENGINES, and MACHINERY; also a
LICENSED INN,
Known as "The Albion," and numerous COTTAGES and OTHER BUILDINGS
erected upon the property.

erected upon the property.

MESSRS. CHESSHIRE AND GIBSON have received instructions from the Trustees of the will of the late Charles Roberts, Esq., TO SELL, BY AUCTION (unless previously disposed of by Private Contract, of which due notice will be given), on Thursday, the 22nd day of January next, at the Exchange Rooms, Stephenson-place, New-street, Birmingham, at Three o'clock in the afternoon for Four o'clock to the minute, in One Lot, the above-mentioned VALUABLE COLLIERY, intersected by railways and canals; also VALUABLE BUILDING PROPERTIES, BUILDING and WHARF LAND, together with the WHOLE of the VALUABLE MACHINERY and FLANT with the WHOLE of the VALUABLE MACHINERY and PLANT

together with the WHOLE of the VALUABLE MACHINERY and PLANT belonging to the vendors, comprising—
THIRTEEN STEAM ENGINES of the combined power of 420-horse, with their winding gear: NINETEEN BOILERS, pit frames, pulleys and guides, rollers and posts, pit chains, ropes, and other plant; also a LICENSED PUBLIC HOUSE, known as "The Albion Inn," numerous COTTAGES, WAREHOUSES, stabling, and other BUILDINGS and LAND, producing a gross rental of £853 ibs. 4d. per annun, exclusive of the important income derivable from royalties, to which it may be expected a very considerable increase will be made as soon as the Mines Drainage Act comes into full operation.

The Tipton Green Colliery is well situated for the transit of its minerals to all parts of the kingdom. It is intersected by the London and North-Western Railway (the Tipton Station of that railway being within its boundaries) by the upper and middle levels of the Birmingham Canal, and by the Walsall Canal, and there are several basins on the property connected with the said canals.

Plans and particulars may be obtained from Mr. John Harver, the agent, at the Tipton Green Colliery offices, Tipton, who will show the property from S. Spopforth, Eq., Solicitor, 31A, Great George-street, Westminster; Messrs. Harvard, Shiphherd, and Harward, Schuprhigg: Mr. E. SMALLMAN, Mine Agent, King's Hill, Wednesbury; and from the Auctioneers—

MESSRS. CHESSHIRE AND GHESON, 93, New-street, Birmingham.

70-inch. CORNISH PUMPING ENGINE.

POR SALE, a FIRST-CLASS 70-inch. PUMPING ENGINE, 11 ft. stroke in cylinder and 10 ft. in shaft, with 2-12 ton BOILERS. Apply to F. W. MICHELL and Co., East Carn Brea, Redruth, Cornwall.

TO COAL MASTERS, COLLIERY PROPRIETORS, AND OTHERS.

TO BE OFFERED FOR SALE, BY PUBLIC AUCTION (unless previously disposed of by private contract), in the early part of the ensuing year, the MINES of COAL, and other MINES and MINERALS, lying within and under a compact ESTATE, situate at IBSTOCK, in the county of LEICESTER, containing about 184 acres, and lying at a short distance from the Ibstock Colliery Powers of entry on a suitable portion of the surface of the estate, and other necessary rights of way for the development of the mines, will be granted therewith. Further particulars will be published in due course, meanwhile any further information can be obtained on application to Messrs. Smith and Mammatt, or to Messrs. E. and T. Fisher, Solicitors, Ashby-de-la-Zouch.

FOR SALE, THE EXTENSIVE COPPER AND BLENDE
MINE OF
A Ï N B A R B A R,
NEAR BONA, ALGERIA.

This property is situated on the North Coast of Africa, only two miles from the sea, and about 20 miles from the town and port of Bona, Algeria, with which it is connected by a carriage road.

CONCESSION.

The concession comprises a tract of country over two miles in length, by half a mile in breadth, and was granted to the late proprietors in perpetuity, the only Government Royalty being an interest of 5 per cent. on the net profits, after a fair reduction in the same for interest on capital, depreciation of plant, and reserve fund. GEOLOGICAL CONDITIONS.

GEOLOGICAL CONDITIONS.

The two lodes for which the concession was obtained can be very easily traced from one end of the property to the other, a distance of two miles; they traverse the rock formation—Devonian schist, at almost right angles, and are intersected by dykes of a whitish-brown porphyry, or what is generally known to English miners as elvan courses, in three or four places, at no great distances from each other. Most of the geological features of this district are almost identical with those of the great copper-producing localities of West Cornwall; the schist here, however, lies on, or is next in order to the gnelss (which is visible to the north near the coast), whereas in Cornwall it is in juxtaposition with the granite.

LODES.

LODES.

the coast), whereas in Cornwall it is in juxtaposition with the granite.

LODES.

These, as before stated, traverse the rock, and are true or fissure lodes. Their direction being about east and west, and profiting by the natural facilities afforded by two valleys, the former proprietors made several acit levels from these valleys into the hill sides on the course of the lodes, the first being very near the outcrop, and the deepest, 8t. Barbe, about 70 metres below the highest point. The length of 10 metres from the surface, and for a length of 120 metres, or about 65 first. Above and in advance of the Barbe level there is a great quantity of ore which can be worked on at once, and other adit levels can be made from the valleys to work these lodes to a much greater depth, without the assistance of machinery. The work hitherto done merely serves to prove what the mine is capable of doing when properly explored and worked. The lodes are generally from 3 to 5 ft. in width, but near the elvan courses before alluded to, they widen out, and contain large columns of ore. The average yield of all the ground opened in these lodes, as shown by the books of the late proprietors, is 2½ tons per lathom, ore containing 10½ per cent. copper. This fact, taken in connection with another—viz. that the lode in the bottom level is richer than it was found to be in any of the shallow levels, and that there is only about ene-tenth of the ground above addit excavated, proves conclusively that an enormous quantity of copper ore exists in this mine that can be easily and inexpensively raised.

The ore cocurs in rich dull-yellow "peacoak" and "coated" sulphurets. The average yield of copper ore sold from this mine has been 10 per cent. metallic copper, obtained without dressing, but by means of a cheap dressing apparatus an average of 12 to 13 per cent. might easily be maintained.

CAPABILITIES OF THE MINE.

A careful examination of the books of the late proprietors shows that 6165 ton of copper ore, of an average of 10 per cent. metallic copper, was raised within the last fou 1 years in which the mine was worked, at an average cost of £2 18s. per ton, this sum includes all mine expenses, and carriage of ore to the port of shipment.

BLENDE. BLENDE.

this sum includes all mine expenses, and carriage of ore to the port of shipment.

BLENDE.

Besides copper this mine is capable of yielding large quantities of blende, and in several places long courses are to be seen containing from 4 to 6 tons per fathom. The former proprietors neglected this source of revenue, and in working for copper by driving their levels, &c., they raised a large quantity of blende, and allowed it to accumulate on the surface of the mine. There is at least 2000 tons of this ore now on the mine heaps, which can be sent to Swansea for £1 15s, per ton. The great abundance of this ore renders the raising of it a very easy operation, and with the average price of spelter during the last year, and which is likely to continue, this ore will prove very valuable to the proprietors, as at least 2000 tons could be raised and shipped annually, at a cost of from £2 to £2 5s, per ton, which would realise £4 5s, to £4 10s, per ton, leaving a net profit of at least £2 per ton. This blende, which is of a dark brown colour, contains 48 per ent. metal, and is generally found pure, or associated with a little copper.

At a very moderate estimate the returns of copper ore from the mine may be placed at 2400 tons for the first year, and 3000 tons annually afterwards. The former proprietors raised and sent all their ore to Bona, at a cost of £2 15s, per ton, taking this as a basis, and add cost of dressing 5s, per ton, transit to Bwansea, insurance, and expenses £1 per ton, and we have a cost of £4 5s, per unit, which is considerably below the average of the last two years, this makes the value of the copper ore at Swansea equal to £9 per ton, from which deducting the cost price as above £4 3s, leaves a net profit of £4 17s, per ton. But reducing these figures to the lowest possible point, and putting the profit on the blende at only £1 10s, and the copper at £3 per ton, upon the first year's output of £400 tons copper, a £5 per ton, upon the first year's output of £400 tons copper, a tef 3000 tons bende, at

CARRIAGE OF ORE TO PORT.

CARRIAGE OF ORE TO PORT.

In estimating the cost of raising and conveying the ore to the port, it is necessary to explain how it was formerly carried on, and how it may now be effected. As before stated, the mine is two miles (in a direct line) from the sea. A cart-road was constructed by the late owners from the mine to a small creek on the coast, distant about 16 miles from Bona; at this creek a storehouse and landing place were built; the ore was carted to this point and thence conveyed to Bona by lighters. This means of transport might still answer, but, as the little port is quite as good as many of the shipping ports on the Spanish coast, by paying a triffe more for freights, vessels could be brought round from Bona, and load their cargoes at this point, and so materially reduce the cost of transport. The price paid heretefore for carriage has been 9 francs per ton from the mine to the landing place, and 6 francs thence to Bona, altogether 15 francs, or about 12s. per ton. The high rate from the mine to the port is caused by the length of the road four miles, and the considerable hill which has to be passed. If a wire tramway upon the Hodgson principle, for which system of transport the ground is admirably adapted, were laid down, at a cost of about \$1200, the cost of carriage to the port might be reduced from 9 francs to about 9d. per ton.

PLANT.

were laid down, at a cost of about £1200, the cost of carriage to the port might be reduced from 9 frames to about \$0. per ton.

PLANT.

Upon the mine there is a good manager's house, well furnished, offices and furniture, store-houses, canteen, stables, and lodgings for about 100 miners and work-people, smiths' and joiners' shops, and other necessary buildings, all built of masonry in the most substantial manner, and covered with tiles. Also a large quantity of mining tools of all descriptions, smiths' and carpenters' tools, carts, tram wagons, with several hundred yarôs of railway in and out of the mine. At the shipping port there is a store-house and an agent's house, and about seven acres of good freehold ground belonging to the company. The property is almost entirely overed with cork oak trees, which furnish an abundant supply of timber for mining and other purposes at very cheap rates; the water supply for all purposes is unfailing, and of excellent quality

It is necessary to state the reasons why a valuable property such as this has remained idle for nearly four years; it belonged to a few friends who formed a company "en participation," the peculiarity of which was that none of the partner could dispose of their share excepting to one or other of the members. M. La Baille, who held more than one-half of the concession, died suddenly in 1869, leaving one daughter under age, and bis affairs in the hands of trustees, who knew nothing of mining, and who, therefore, proposed to sell the property, which, all the other parties consenting, could only be done by public aution.

Whilst arrangements were being made between the several members of the company, the Franco-German war broke out, and from that time until the end of 1871 the property remained idle and matters unsettled: negociations were then set on foot with an English firm for the purchase of the property, but nothing was finally settled until June, 1873, when the property was put up at anction, and sold to the property proprietors.

That the former

MR. WOODS, 7 AND 8, MUELLE, SANTANDER SPAIN.

DEC.

Fro

## RAILWAY CARRIAGE COMPANY (LIMITED).ESTABLISHED 1847. OLDBURY WORKS, NEAR BIRMINGHAM.

MANUFACTURERS of RAILWAY CARRIAGES and WAGONS, and EVERY DESCRIPTION of IRONWORK.

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THE BIRMINGHAM WAGON COMPANY (LIMITED)
MANUFACTURE RAILWAY WAGONS of EVERY DESCRIPTION, for
HIRE and SALE, by immediate or deferred payments. They have also wagons
for hire capable of carrying 6, 8, and 10 tons, part of which are constructed specially for shipping purposes. Wagons in working order maintained by centract.

EDMUND FOWLER, Sec.

WAGON WORKS,—SMETHWICK, BIRMINGHAM.
\*.\* Loans received on Debenture; particulars on application.

WATTS, RICHARDS, AND CO.
PITWOOD MERCHANTS,
PENNER WHARF, NEWPORT, MONMOUTHSHIRE.

AGENTS AT SWANSEA:— STEPHEN AND REES, SAW MILLS, GREENFIELD STREET.

Importers of every description of wood for colliery purposes.

MINES REGULATION ACT

STEMMERS, PRICKERS, CHARGERS, AND SCRAPERS,

JAMES WHITFIELD, OXFORD STREET, BIRMINGHAM.

#### ORE-DRESSING MACHINERY.

SEPARATION TROMMELS. JIGGING MACHINES,—Continuous and automatic. CLASSIFIERS. SHAKING TABLES. BUDDLES. PERFORATED PLATES,—For Trommels, Jigging Sieves, and Stamps' Grates. SACH'S ROCK-DRILL,—As used at Altenberg, Commern, Saarbruck, and Musen.

For particulars, apply to—
MESSES. KEMBER AND CO. CLARENDON GROVE, DRUMMOND STREET, N.W., LONDON.

#### THE PATENT SELF-ACTING MINERAL DRESSING MACHINE COMPANY (LIMITED).

T. CURRIE GREGORY, C.E., F.G.S. OFFICES,-62, ST. VINCENT STREET, GLASGOW.

This company grant licenses, under their patents, for the use, singly or in combination, of the most approved machinery for dressing ores, comprising Stamps, Jiggers, Classifiers, and Buddles.

Mr. GRORGE GREES, the company's engineer, will exhibit the machinery in full work, and enter into contracts for the erection of the whole, including his Patent Self-feeding and Classifying Process, which is indispensible for the effective working of Self-acting Jiggers.

He has completed arrangements at Aberystwith, whereby he is able to sup p and erect all at the lowest possible cost.

The following testimonials will be satisfactory :-

FROM THE GREENSIDE MINE COMPANY, PATTERDALE,

PROM THE GREENSIDE MINE COMPANY, PATTERDALE,
WESTMORELAND.
Patterdale, near Penrith, October 2nd, 1872.

Drar Sir,—The patent jiggers, which you have erected at Greenside Mine, are
giving great satisfaction. The separation which they make is complete. Your
arrangement for self-feeding and classifying is the main step towards effective working, and is well designed. The saving both in ore and labour will please everyone,
and there is no doubt that the "ew system must supersede the old in all places
where these advantages are desired.

GREENSIDE MINE COMPANY,
Mr. George Green, Aberystwith. (per T. TAYLOR.)

FROM CAPT. HENRY TYACK, M.E., EAGLE BROOK MINE,

FROM CAPT. HENRY TYACK, M.E., EAGLE BROUK MINE,
CARDIGANSHIRE.
Eagle Brook Mine, December 27th, 18/2.
Sir,—I have minutely inspected The Patent Self-acting Dressing Machinery you have erected at the Great Darren and Bodcoll Mines. I do not hesitate to say that it is by far the most perfect machinery for the purpose I ever saw. The self-acting arrangement is complete, no labour being required to obtain a clean product from the crusher, under the very finest granular particles, while the slimes are conveyed direct to the buddles without settling pits. The system must save at least two-thirds of the entire labour cost, and a considerable amount of ores, which would otherwise be lost, and will, most certainly, be adopted where these considerations are an object.

HENRY TYACK. Mr. George Green, Mining Engineer, Aberystwith.

M ESSRS, WATSON BROTHERS return their most sincere thanks for the great natrong mean bestowed and specific

thanks for the great patronage bestowed and confidence reposed in their firm for upwards of 39 years, and to assure their friends and clients it will be their sarnest endeavour to merit a continuance of both.

In the year 1843, when Cornish mining was almost unknown to the general public, attention was first called to its advantages, when properly conducted, in the "Compendium of British Mining," commenced in 1847, and published in 1843, by Mr. J. Y. Warson, F.G.S., author of "Gloanings among Mines and Miners," "Records of Ancient Mining," "Cornish Notes" "distributed in 1848, Mr. Warson and York of "Gloanings among Mines and Miners, "Records of Ancient Mining," "Cornish Notes" (second series, 1853), "The Progress of Mining," with Statistics of the Mining Interest, annually for 21 years, &c., &c. In the Compendium, published in 1843, Mr. Warson was the first to recommend the system of a "division of small risks in several mines, ensuring the success in the aggregate," and Messrs. Warson Brothers have always a selected list on hund. Perhaps at no former period in the annals of mining has there been more peculiar need of honest and experienced advice in regard to mines and sharedealing than there is at present; and, from the lengthened experience of Messrs. Warson Brothers, they are emboldened to offer, thus publicly, their best services to all connected with the mining interest.

Messrs. WATSON BROTHERS are daily asked their opinion of particular mines, as well as to recommend mines to heest of their judgment and ability, founded on the best practical advice they can obtain from the mining districts, but they will not be held responsible, nor subject to blame, if results do not always equal the expectations they may have held out in a property so fluctuating as mining.

COLLIERIES, TRONWORKS, &C.

COLLIERIES, IRONWORKS, &c.

Among the great complaints of metallic miners of late, has been the high prices of Coal and Iron; thus while dividends in Copper and Tin Mines have been gradually declining, many Collieries and Ironworks have been paying 20, 30, and even 80 per cent.; and in consequence of this, Messrs. WATSON BROTHERS have had several enquiries from clients for prices and particulars of the best investments in both classes, and they are collecting information which they hope to publish from time to time, and will be glad if Secretaries and Managers will furnish them with the same kind of information that Pursers and Secretaries of Metallic Mines have so freely done during the last 30 years. In the meantime they will be ready to deal, at Market prices, in any or ail of them.

T R E D I N N I C K A N D CONSULTING MINING ENGINEERS.

MIXES PAY WELL, yet require judgment in the selection.
Statistical data and reliable intelligence gratuitously rendered.
Apply, Tweive to Three o'clock personally, or by letter.

DEALERS IN APPROVED STOCKS AND SHARES. 32, Fleet-street, St. Dunstan's, London, E.C.

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H E M I S T I A N I

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Are Development and Reproduction,
Chemistianity their Commentary
And kindly practice: A God like Creed."
"Chemistry is the Science of all Science
To its disciples first hand God evidence."

"LITERARY WORLD," Nov. 7, 1873.—We can award him credit for a thorough acquaintance with the subject upon which he writes, the result, evidently of most painstaking research, and for communicating that knowledge in concise, and, for the most part, well expressed phraseology. His manifest enthusiasm certainly deserves a reward.

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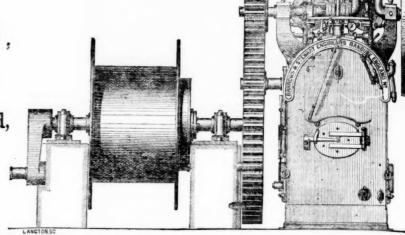
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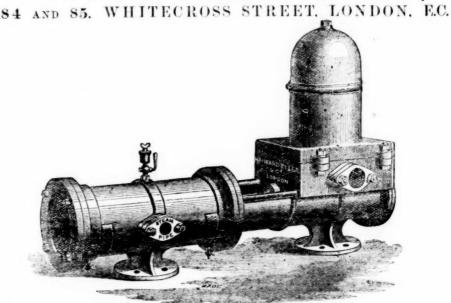
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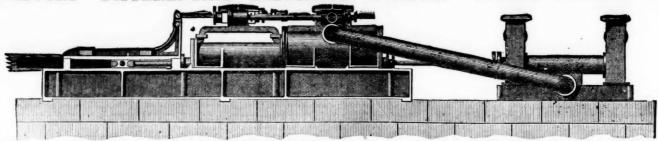
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## THE MINING SHARE LIST.

BRIT	ISH I	OIVI	DEND	MINE	S.			
Shares, Mines.	D.	rid.		· Clos.		otal dine	Per share. La	and mail
1500 Alderley Edge, c. Cheshire*	10	0 0		. C.		11 16 9	0 5 0Oct	test para
20000 Ant-y-Crib, I, Talybont*	2 1	00.			***	0 0 6	0 0 6Fet	1870
30000 Bampfylde, c. i. mn., Devon*	1 1	00.	514.	5 5%	***	0 2 0	0 2 0 Ju	ne 1879
5500 Blaen Caelan, s-l, Cardigan* (£4 s	h.) 3 10	00.	. 314	3 314	***	0 10 9	-	- 1010
18000 Boscaswell Downs, t, c, St. Just *.	3 (	00.	** 473.	2 272	100	0 5 6	0 2 0Oct	t. 1871
200 Botallack, t, c, St. Just. 500 Bronfloyd, *ts-t, (2000 Deb. B. Sp.ct 4000 Brookwood, c, Buckfastleigh 3348 Cargoll, s-l, Newlyn 6400 Cashwell, t, Cumberland*	106	50 .	. 00	40 00	6	119 15 0	5 0 0 Au	g. 1872
4000 Brookwood & Buckfastleich	.) 100 (	0 0			1	10 0 0	2 0 0Jan	1. 1872
3348 Carpoll a/ Newlyn	4 15		11/		***	2 14 6	0 6 0Nov	v. 1873
6400 Cashwell. /. Cumberland*	2 10		-/4	. 1 13/8	***	4 16 3	0 12 6Oct	1872
			3/	1/ 1/	***	1 4 0	0 4 0 Aug	z. 1872
1000 Carn Brea, c, t, Illogant	35 0			61 63	***	0 10 0	0 2 0Jul	y 1873
1000 Carn Brea, c, t, Illogant	th 5 0	0	. 0172.	. 01 00		07 0 0	1 0 0Oct	. 1873
2450 Cook's Kitchen, t. Illegant	. 19 14			.111/2 12	v	0 7 6	0 7 6Jun	ne 1873
10340 Devon Gt. Consols, c, Tavistock +*.	. 0 12		23/	11/4 2	2	11 17 0	0 7 6Jan	. 1873
4296 Dolcoath, c, t, Camborne	1014				*** 1.	02 11 0	0 12 0May	y 1872
10000 East Balleswidden, t, Sancreed*	. 1 0		. 2	. 124 9		03 11 8	0 10 0Oct	. 1873
10000 East Balleswidden, t, Sancreed* 6144 East Caradon, c, St. Cleer†	. 2 14			1 1%	***		0 0 5Aug 0 2 0Oct.	1873
300 East Darren, /, Cardiganshire	. 32 0	0			2	14 19 0 16 10 0	1 0 0 Cet.	1872
6400 East Pool, t, c, Illogan	. 0 9	9		. 81/4 10	]	13 11 3	1 0 0Sep 0 2 6May	1. 1873
5000 Exmouth, s-1, Christow	0 7	6			***	0 1 0	0 1 0May	1879
2800 Foxdale, l, Isle of Man*†	. 25 0	0				30 15 0.	0 10 0Sept	1879
3950 Gawton, c, Tavistock	. 3 10	6			***	0 13 0	0 5 0May	1879
15000 Giasgow Cara., c [30,000 £1 p., 10,0	00 15s. p	.]		2 21/3	***	0 4 10.	0 1 0Sept	1879
40000 Glasgow Cara., c* [30,000 £1 p., 10,6 15000 Great Laxey, l, Isle of Man* 25000 Great West Van, l, Cardigan*	. 4 0	0	14	13 14		16 11 0	0 10 0Oct.	1873
5008 Great Wheel Von to Friedrich	. 2 0			176 21/8	***	0 1 0	0 1 0Sept	t. 1873
5908 Great Wheal Vor, t, c, Helstont	. 40 5		3	214 3	1	5 19 6	0 26. June	e 1872
6400 Green Hurth, l, Durham*				4% 5%	**	1 4 0	0 4 0 Nov	. 1873
1900 Hingston Downs, c, Calstock*† (£1	8 10		0	4 41/2	6	2 5 0	0 15 0Oct.	1872
25000 Killaloe s/ Tipperary	1 0	0	A	1-1/4 2		4 3 0	0 5 0Dec.	. 1872
400 Lisburne, L. Cardiganshire	18 15		34		***	0 3 1114	0 0 6Mar	. 1873
25000 Killaloe, si, Tipperary 400 Lisburne, l, Cardiganshire 5120 Lovell, t, Wendron 9000 Vices Wings Co. l, Wendron	0 10				55	9 10 0	1 0 0 Sept	. 1873
9000 Minera Mining Co., I. Wrexham*	5 0		30	271/2 30	***	0 16 0	0 4 0 Aug.	. 1873
3000 Minera Mining Co., l, Wrexham*.	7 0		514	534 554	6	3 5 8	0 4 0Oct.	1873
				538 558	***	0 8 0	0 3 6July	1872
2000 North Levant, t, c, St. Just 5694 Pedn-an-drea, t, Redruth 5000 Penhalls, t, St. Agnes 50000 Penstruthal, t, c, Gwennap	10 17	0	- :::		***	0 10 0	0 2 5 Nov	1879
5694 Pedn-an-drea, t, Redruth	8 2	0	4	3 4	10.0	0 50 6	0 12 0Sept	. 1873
5000 Penhalls, t, St. Agnes	3 0		314	2 214	***	0 0 0		
50000 Penstruthal, t, c, Gwennap	2 0		13/8	76 11/6		3 1 0 (	0 2 6Oct. 0 1 0Nov. 0 4 0Nov.	1873
		4		/8		9 19 10 (	4 0 Nov.	1070
1772 Polberro, t, St. Agnes	15 0	0			***	1 12 6	5 0Mar.	1970
1772 Polberro, t, St. Agnes	1 0	0	-		(	3 0 (	2 0June	1872
		7	736	714 814 17 18	104	4 12 6 0	10 0 Sept.	1879
12000 Roman Gravels, l, Salop*	7 10	0	1814	17 18	1	3 16 6 (	8 6Oct.	1872
4000 Stimoton, a, t, St. Austell	1 0	0			(	1 0 0	1 0Feb.	1872
buck Slimeford Dressing, t, Calstock	1 0				(	J I I 0	1 1 Sept.	1872
512 South Caradon, c, St. Cleer	1 5		100	94 96	711	1 0 0 2	0 0 Nov.	1873
6000 South Carn Brea, c, t, Illogan		6		31/8 33/8	(	10 0 0	2 6July	1872
6000 South Darren, l, Cardigan* 242 Spearne Moor, t, St. Just		6			1	1 6 0	16 Nov	1970
8771 St. Just Amalgamated, t*		9			17	D U 0	10 0June	1872
12000 Tankerville / Salon*	8 10	0	101/	10 1011	0	8 0 0	4 0 Nov.	1871
12000 Tankerville, l, Salop*	1 0 6	0		10 10%	3		6 0Feb.	1873
6000 Tineroft, c, t, Pool, Illogant	9 0	~	40	39 41	0		1 6Oct.	1872
4000 Trumpet Consols, t, Helston	5 15	0	*	6 7	46		0 0. Oct.	1873
15000 Van. /. Llanidloes*	4 5		3714 3	214 3714	9	11 0 0	10 0 Nov.	1872
3000 W. Chiverton, /, Perranzabuloet	10 0 0		514	4% 5%	*** II	2 0 0	15 0Oct.	1873
2048 West Wheal Frances, t. Illogan	27 3 9		9	10 19	52	10 0 0		1873
512 Wheal Basset, c, Illogant	5 2 6		221/2	25 30	A99	12 6 0		
512 Wheal Basset, c, Illogant	5 4 6		¾ xd	9 914	638	1 8 0	10 0 Aug.	1872
896 Wheal Margaret, t, Uny Lelant 10000 Wheal Mary, t, St. Dennis* 1024 Wheal Mary Ann, l, Menhenoitt	13 17 6	3	21/2	214 3	82	4 0 0	O U. NOV	1873 1
10000 Wheal Mary, t, St. Dennis*	5 0 0		41/4	31/4 4				
1024 Wheal Mary Ann, I, Menhenoitt	10 0 0		21/4	2 2%	74	5 6 0	1 0 Jan. 2 6. June	1873
80 Wheal Owles, t, St. Just	70 0 0			-/4	522	10 0 4	0.0 Aune	1873
12000 Wheal Russell, c, Tavistock	1 0 0				0	20 0	0 0Aug. 1 0June	1872
1356 Wheai Seton, t, c, Camborne 15000 Wheal Tregoss, t, Roche	73 0 6		221/2	17 20	256	50 0	10 0Oct.	1871
15000 Wheal Tregoss, t, Roche	1 0 0			-	0		1 0Jan.	1873
10000 Wheal Whisper, t, c, Warleggan* 15000 Wicklow, c, sul, i, Wicklow	1 0 0	***			0		0 6. May	1873
south wicklow, c, smi, i, Wicklow	2 10 0	***	33/8 5	31/4 31/4	52		2 6 Mar.	1872
								4014
FOREIG	N DI	TIDE	ND W	INTEG				

#### FOREIGN DIVIDEND MINES

	IORLI	CLA	v	1 ,	ID	EAD.	MILL	VI.S.									
355000	Alamillos, l, Spain*†	2			***				**		1	1 9	0	2	6	Mar.	1873
*0000	Annaua and Tirito Consol., ST	1		0	***	. 28	. 3/4	3/8	**	. (	0 4	4 3	0	1	0	May	1873
10000	Australian, c, South Australiat	1		6	***	134	. 11/4	134		. (	0 1	1 6	0	2	0	July	1873
15000	Battle Mountain, c, (6240 part pd.)	5		0	***				***	. (	0 10	0 0	0	10	0	Nov.	1879
10000	Birdseye Creek, g, California*	. 4		0	***	31/4	27/8	31/8	***		) 6	0	0	2	0.	July	1873
1,0000	Bensberg, I, Germany*	10			***	7	. 6	7		(	17	4	0	8	0	July	1873
12320	Burra Burra, * c, So. Australia	8			***					56	5 0	0	0	10	0	Oct.	1879
20000	Cape Copper Mining, "t So. Africa	- 7	0		***	29	2714	2834		1	1 1/	5 0	1	0	0	Dec.	1873
40000	Cedar Creek, g, California*	5	0		***	21/4	21/2	21/	***		) !	5 0	0			June	
80000	Central American Association*†	0	15		***				***			0		ĩ	0	July	1960
1300	Chicago, s, Utah*	7	0		***	71/4	7	734				0				Sept.	
21000	Colorado Terrible, s-1, Colorado*†	- 5	0		***	41/2	4					0		2	0 1	Oct.	1871
70102	Don Pedro North del Rey*†	0	16	0		1	3/4	34		2					0	Mar.	1975
	Eberhardt and Aurora, *, Nevada*†	10		0	***	4%	434	45%	***	1	0	0	1	0	0	July	1971
4302	Eldorado, g, Nova Scotia*	10		0	***									15	0 3	June	1979
60000	Emma, g, s, Utah (25,000 fully pd.)	20	0	0		3 1/8	3 :	33/		3	12	0	0		0 1	Dec.	1070
70000	English and Australian, ct S. Aust.	2	10	0	***	2	13		***		7	3	0		8	Mar.	1012
15000	Ferguson, g, California*	2	0	0	***					0		0		3	0	April	1010
20000	Flagstaff, s, Utah*	10	0	0	***	31/3	314	33%	**	4		0				July	
25000	Fortuna, l, Spain*†	2	0	0	***	614	53/	61/				4				Dec.	
20000	Gold Run, hyd.	1	0		***	3/4	1/8			0	2	4				Oct.	
68000	Kapunda Mining Co. Australiat	1	3	0	***	34	1/8	36		0	2	4				June	
20000	Last Chance, s,* Utah	8	0	0	***	134		174		0				9	0 1	July	1010
15000	Linares, I, Spain*†	3	0	0	***	41/4	334	41/		14	3	4	0	2	A 1	Dec.	1000
7837	Lusitanian, Portugal*† (£5 shares).	3	0	0		114		11/2	***					ĩ	e 3	Mar.	1010
15000	Mammoth Copperopolis of Utah, c, s	10	0	0		51/2			***	0	5	0	0	*	0 7	Dec.	1010
\$000	Mountain Chief, s, Utah*	10	0	0				10		0				4	0 1	fan.	1070
18000	Prussian Mining & Ironworks, cl, i.	30	0	0	***						0	0	•	0 0	0 7	fuly	1010
10000	Pontgibaud, s-l, Francet	20	0 (	0	***	21	19	21	***	14	16	11.			0 7	Dec.	1010
100000	Port Phillip, g, Clunes*†	1	0 (	0	***	78		76	***	1				1 (	0 7	an.	1010
44000	Richmond Consols, *, Nevada*†	5	0 (	0	***	7	61/2			0	17		ó	7		Oct.	1012
120000	Scottish Australian Mining Co. * †	1	0.0	0			13%	154			DAY	cent			2	May	1078
112500	Sierra Buttes, g, California *†	2	0 6	0	***	234	2 2	14						9	0 6	Oct.	1000
60000 8	South Aurora, s, Nevada"	5	0 (	3	***	3/4	3/4	34	***	Ô	14	9	5	9 (		vov.	1873
15000 8	weetland Creek, g, California*†	4	0 (	)		51/2	5 5	1/	***			0	0	8	0 0	lone 1	1073
20000 7	Colima, q, s* (6000 sh are £5 f. pd.)	3	0 0	)	***		-	/4		0	5	0 1				lept.	070
500 T		20	0 0		***					28	10	0		2 6		ov.	872
		-	-			***				-0	4.0	U.v.		J 0	J	Dec.	014

#### NON-DIVIDEND FOREIGN MINES

Shares.	NON-DIVIDEND FOREIGN . Mines.	Paid.			-			3193	New Wh. Grylls, t, Perranuthnoe 0 16 6 — 3 New Wheal Lovell, t, Wendron 5 13 6 12 14
	Anglo-Argentine, g, s.*! (15 per cent. Preference)	ruid.		Last Pr.			t Call.	1 1200	New Wh. Setop. c. Camborne 38 16 8 1 36
					. 3/8 31		lly pd	512	North Rusy United t c Kenwan 9 80
20000	Australian United, g, Victoria*†	10				8ej	ot. 1872	25000	North Laxey 2 0 0
3000	Bellavista, s, Peru* (£10 shares)	10	)	. 33	. 1/8 3/	Fu	lly pd	5610	North Wheal Crofty, c, Illogant 4 19 1/2
20000	Rine Tent had California	10	)			Ju	ne 1873	2000	North Wheal Towan, t. c. Illogan 1 196
50000	Blue Tent, hyd., California	0 (	)	. 51/4	. 5% 5	4 Fu	lly pd	10000	North Pool, c, Illogan*(Reserve 2500) 2 0 0 11/ 1/4
12000	Braganza, g, Brazil*† 0 Camp Floyd, s, Utah* 10	15	)			Oct	. 1870	1000	North Rosewarne, c. Gwinear 5 12 6. 2%1%
25000	Casana Sulphus Company Popular Testan	0 (	)				ly pd.	695	North Roskear, c. Camborne 72 19 0 4 3
E0159	Cesena Sulphur Company, Romanga, Italy*	0 (				Fu	ly pd.	12000	North Tankerville, I, Salop*
4000	Chontales, g, s, Nicaragua*† (and 12,542 of £1 15s.) 2	0 0		. 1	74 1	Fu	ly pd.	8000	North Treleigh Wood, t, Redruth* 1 0 0 11/4 1
10000	Clifton, s, Colorado*	0.0					. 1872	5936	North Treskerby, c, St. Agnes 3 0 10 11 1
							ly pd.	12000	Old Batholes,* , Salop 1 10 0
10000	Cuiaba, g, Minas Geraes, Brazil* 0	17 6					ie 1872	27000	Old Treburgett,s-l,(&9000pref.10s.fpd)1 0 0 34 1/8
7500	Douglas, s, Georgetown, Col	0.0					ly pd.	15000	Oola Hills, * l, c, Limerick
18000	East Sheboygan Preference* (40,000 ordinary shares) 2	0.0					ly pd.	24000	Parys Mountain, c, Anglesea" 8 0 0 14 14
20000	Excelsior Hydraulic Gold Washing Co., California	0.0				Dec	. 1871	256	Pendarves United, t, c, Camborne 105 5 0
Colorana	Exchequer, v. s. Campornia.	0 0				Ful	ly pd.	1731	Penhale Wheal Vor, t, c, Helston 13 15 0
				35	1/4 1/4		ly pd.	12000	Pennerley, l, Shropshire* 2 0 0 21/8 17
90000	General Brazilian, g*	0.0					ly pd.	15000	Penrhyn, I, Carnaryonshire* 2 0 0
						Fu	ly pd.	12000	Pen-yr-Henblas, l, North Wales* 1 0 0
							y 1873	16000	Perkins Beach, I, Salop* 1 0 0 % 1/2
							otment	8000	Perran Consols, t, Perran 2 20
							il 1873	3000	Phone of Powerseholes
							ly pd.	19000	Phonix, 2-l, Perranzabuloe
							ly pd.	2000	Plynlimmon, l, Llanidloes 2 5 0 1/2 1/2
0000	Javali, g, Nicaragua 3 Kansas, g, Colorado 5	0.0		1/	36 36			1000	Polbreen, t, St. Agnes 6 10 0
1000	Kansas, g, Colorado*	0.0	***	- /2			y pd.	2000	Polhigey Moor, t, Wendron 3 10 0
							ly pd.	10000	Prideaux Wood, t, Llanivery 8 0 0
80000	London and California, g*t	0.0	***	=			. 1873	12800	Prince of Wales, c, Calstock 1 1 0 0 1 1/4
						F01	ly pd.	8000	Reafadda, c, Tipperary 1 0 0
				74			ly pd.	3877	Redmoor, e, t, Callington 3 0 0 — Rhydtalog, s-l, Cardiganshire 1 0 0 —
				19/			y pd.	12000	Rhydialog, s-1, Cardiganshire 1 0 0
2000	Menzenberg, c, Honnef, Germany* 5	5 0	***	41/	1 1%		ly pd.	19000	Rookhope Valley, I, Durham* 4 0 0 11/ 1 1
					4 41/2	Ful		0809	Rosewall Hill and Ransom, t 4 2 6 1 34
6000	Monte Loreto, g, c, Italy*	0 0	***				tment	9000	Rosewarne United, c, t, Gwinear 1 10 0 36 36
8000	Monte Loreto, g, c, Italy 5.  New Pacific, g, s, Nevada 7.  New Outbrada c, Venezuela 7.	0 0	***	**		Ful	y pd.	3000	Russell, #1, Swymbridge 0 6 0
1000	New Quebrada, c, Venezuela*	0 0	***	34	314 33		y pd.	6123	South Condurrow, t, c, Camborne! 6 5 6 51/4 43/4
				174				120	Bouth Devon, f-c., Tavistock 1 0 0
				5	1 1%		ly pd.	513	South Dolcoath, c, t, Redruth
0000	Newfoundland, /	0.0	***		4 434		y pd.	5000	Bouth Fowey, t, c, Tywardreath 2 6 5
10000	North American, g*	0 0	***				y pd.	9000	South Great Work , St. Hilary 2 9 6
0000 ]	North American, g* 10 Panuleillo, c, Chili* 4 Pestarena United, a, Italy** 4	6 6	***	09/	0.01/	Ful	y pd.	12000	South Kit Hill, t, Callington* 1 0 0
0000 ]	Pestarena United, q, Italy*1	0.0		2/4	2 21/4	Ful		12000	South Lisburne, l, ld, Cardigan* 0 12 6
0000 ]	Rica, g, Colombia (40000 issued)	0 0	***	34		Ful	y pd.	700	South Margaret, 7, Ludgvan 1 10 0 136 156
0000 ]	Rio Tinto, c, Huelva, Spain	10.0	***	.7/8	1/4 /3	Ful	y pd.	2500	South Merllyn, /, Flints 2 0 0
					434 55		. 1873	12000	Fouth Phonix, 7, c. Linkinhorne 0 16 0 2 114
2500 ]	Ruby Consolidated, s. Nevada*	18 ()	***	3/8	3/4 3/4		1872	12000	South Plynlimmon, l, Llanidloes* 1 76
6000 ]	Ruby Consolidated, s, Nevada* 10 Russia, c, Orenburg and Uta*; 10	0 0	***	-		Full	y pd.	18000	South Roman Gravels, I, Salop* 1 10 0 1 78
					31/ 31/	Full		6000	South Roskear, t, c, Camborne 8 0 0 7 61/2
					2 21/2	Full		#SCHOOLS	South Tolearne, f. c. Camborne 0 19 8 74 54
5000 8	Saturn, c, Utah"	7 6	***	***		Mar	. 1872	12000	South Van. 4. Montgomeryshire 1 0 0 -
0000 8	Silver Plume, s, Colorado*	0.0	***	***		Full	y pd.	3(8)()	Fouth Ward, (, Beerlerris 2 15 0 1 3/
						Full	y pd.	937	Bouth Wheal Crofty, c. Illogan 35 0 10. 29 24
2200 F	Ft. John del Rey, Brazil*† 100	0.0		***		Full	y pd.	45195	South Wh. Frances, c. Illogant 25 3 9 912 10
5000 F	Star of Nevada, se (12000 issued)	0.0	***	190	1821418	1/2 Oct.	1872	6000	South Wheal Kitty, t, St. Agnes 0 50
0000 1	Control   Cont	0.0	***	- 111		Full	y pd.	4000	South Wheal Kitty, t, St. Agnes 0 5 0 — St. Agnes Consols, t*
00000	Thornhill Boot of Ametralias	0.0		1/2000	1 11/2	Full	y pd.	14000	Ct. Diazev 7. (EZ 10a sharea) 9 0 0 912 912
8174 F	Inited Mexican a Maximum 1	0.0	***	1	3/4 1	Full	y pd.	62000	St. Breward Consols, * c.s. Cornwall. 1 0 0
ACICIO T	Table of all Facility of the second	4 0	**	21/	1% 2%	May	1868		
1000 Y	Yorke Peninsula a South Assessed	10.0	***	11/2	11/4 13/	Oct.	1873	940	St. Ives Consols, t. St. Ives 19 15 0 6M 6
5000 Y	Torke Peninsula, c. South Australia	0.0	***	16	1/4 1/4	Full		BUILT	Ft. Lawrence, Amal., f. Flintshire* 2 0 0 3 344
3	udenemutene, c, South Australia *1	00	***		22.19	, Full		16000	Success, &c., /, Derb. (12,000/, ealled). 1 0 0
		-							

NON-DIVIDEND	MINES.	
Mines.	Prid.	7

	NON-DIVIDEND MINES.									
_	Shares. Mines. 25000 Aberdaunant, l, Llanidloes"	Paid. Last Pr. Cios. Pr. 1 0 0 21/4 21/4 21/4								
	10000 Aberystwith,* s-f, Cardigan	4 0 0 1 10 0 5 0 0 3½ 2½ 3								
paid 1873	50000 Ballycummisk,* c, Schuli 1500 Balmynhear, t, Wendron	2 0 0 · 3 18 0								
1873 1973	12000 Bedford Consols, c, Tavistock	1 16 6 74 14 14								
1871 1872	2000 Belstone, c (and 5000 sh. 17s.6d. pd.) 5000 Blue Hills, t, c, Bt. Agnes	1 19 6 1 3/ 1 2 0 0 1½1½ 1½								
1872 1873	12000 Bowden Hill, ** mn (7000 sh. £1 pd.) 20000 Brynambor, ** Cardigan	2 0 0 1½1½ 1¾ 0 10 0 1 0 0								
1872 1872	20000 Brynambor, l, Cardigan 5000 Bryna Royalton, t, Roche* 30000 Brynn,* t, St. Austell 30000 Burrow & Butson,* t, c, bl, St. Agnes 20000 Burra Burra, *t,c, bl, Kenwynl 6000 Bwadrain, *el, Cardigan* 5004 Bwlch Consols, ⪙, Cardigan*	1 0 0 21/ 11/2								
1873 1873 1873	30000 Burrow & Butson,* t, c, bl, St. Agnes 20000 Burra Burra,* t,c, bl, Kenwyn	1 0 0 9s 9s. 1 0 0 1¼1¼ 136								
1873 1872	12000 Cae Gypon / Condimending	3 12 6 — 4 10 0 — 2 0 0 ¾ ¼ ¾								
873	30000 Caldbeck Fells, I, Cumberland*	2 0 0 3 4								
872	14000 Caradon and Phœnix Consols, c 12000 Cardiganshire Old Bog, l*	2 10 0 156156 156								
873 873 872	10000 Castle Gate, t, St. Colomb*	5 1 6 — 1 0 0 —								
872 873	3000 Cefn Brwyno (lim. to £5) 6000 Cefn Consols, l, Flintshire*	1 10 0 — 5 0 0 — 5 0 0 —								
873 873	3000 Cefn Brwyno (lim. to £5) 6000 Cefn Consols, i, Flintshire* 10000 Central Van, *i, bi, Llanidloes 24000 Court Grange, *i, Cardiganshire 24051 Crenver & Abraham* (25949 sh. £1).	5 0 0 0 5 0 36 36 36								
872 873	24051 Crenver & Abraham** (25949 sh. £1). 15000 Cwm Blan, I. Radnorshire* 15000 Cwm Blan, I. Radnorshire* 15000 Cwm Nant Ddu, *I. Montgomery 15000 Cwm Nant Ddu, *I. Montgomery 15000 Cwm Ricket and Maesnant, I. Mont. 256 Cwmystwith, I. Cardiganshire! 600 Denbighshire Consolidated, I* 280 Derwent Mines, *I. Durham; 656 Ding Dong, t. Galval 656	2 0 0 14 36 14								
872 872 873	15000 Cwm Nant Ddu,* l, Montgomery	1 0 0 — 1 0 0 — 2 11 0 —								
873 873	256 Cwmystwith, l, Cardiganshire! 60	2 11 0 — 0 0 0 — 2 0 0 —								
873 872	6000 Denbighshire Consolidated, l* 280 Derwent Mines, s-l, Durham; 300	3 0 0 3 3								
873 873	656 Ding Dong, t, Gulval 46 12000 Dolwen Consols, l, Cardigan*	0 14 6 61 6 61								
971 973 973	10000 Duchy Great Consols, c, Calstock	5 0 0 5¼ 5 5¼ 0 0 1½ 1 1½								
72 i	5000 Dyliffe, 4, Montgomeryshire	0 0 0 0 0 7½ 7 7½ 3 10 0 15 12 14								
73	800 East Black Craig, * l., Scotland	3 10 0 15 12 14 5 0 0 — 5 0 0 —								
73 72 1	4000 East Chiverton, l, Perranzabuloe 5 2000 East Cwm Vron, l, Llanidloes* 2	10 6 11/6 1 11/6								
72 1	3000 East Dolcoath, t, Illogan	0 0								
72 70 5	280 Derwent Mines, s-t, Durham; 30 658 Ding Dong, t, Gulval 12000 Dolwen Consols, t, Cardigan* 4 12000 Dolwen Consols, t, Cardigan* 6 6500 Drake Walls, t, c, Calstock 6 10000 Dunsley W. Phonix, t, Linkin* 6 10000 Dunsley W. Phonix, t, Linkin* 6 10000 Dynsel, t, Seetland 2 10000 Dynsel, t, Seetland 2 10000 East Black Craig, t, Seotland 2 10000 East Chiverton, t, Perranzabuloe 5 10000 East Chiverton, t, Linkindoes* 2 10000 East Cown Vron, t, Linkindoes* 2 10000 East Foxdale, s-t, Isle of Man* 1 10000 East Grenville, c, Camborne 6 10000 East Grunnislake and So. Bedford, c. 13 10000 East Linngyneg, t, Montgomery* 2 10000 East Linngyneg, t, Montgomery* 2 10000 East Linngyneg, t, Montgomery* 2 1000000 East Linngyneg, t, Montgomery* 2 100000 East Linngyneg, t, Montgomery* 2 1000000 Expressions 1 100000 East Linngyneg, t, Montgomery* 2 1000000 Expressions 1 10000000 Expressions 1 100000000000 Expressions 1 100000000000000000000000000000000000	13 0 14 14								
72 5 71 3 73	0000 East Llangynog, /, Montgomery* 2 0000 E. Nant-y-mwyn,* /, Brecknockshire. 1 5610 East Seton, c. Camborne	0 0 34 3/2 3/4								
72 73 1	6000 E. Tywarnhaile and Croft Prince, t, c. 0 5000 East Van, t, Llanidloes*	10 0								
72 73 1: 73 1: 72 1:	1906 East Wheal Lovell, ', Wendron': 4 2800 Excelsior, t, c, Stoke Climsland 0	9 0 111/4101/411/4								
73   1: 72   1:	2800 Florence and Tonkin United* l.       0         5000 Florence, t, Perranuthnoe*       1         5100 Florida, s-l, Cardiganshire*       3	0 0 11 1 11/								
72 20	5000 Florida, s-l, Cardiganshire*	0 0 11/4 1 11/4								
73   20 72   10 73   8	1   1   1   1   1   1   1   1   1   1	6 0								
2 1	2000 Furze Hill, t, Tavis. *	0 0 — 0 0 — 10 0 —								
3 30	0000 Glasdir, c*	0 0 =								
2 12	2000 Goginan, and Level Newydd, Card., 1	0 0								
4	000 Gorsedd and Celyn Level, l, Flint 2 009 Great Caradon, c, St. Ive	0 0 2 2 12 6 36 36 36								
3 30	000 Great Harvest, t, c, St. Austell*	0 0 11/4 11/4								
3 2 25	2000 Gorsedd and Celyn Level, I, Flint   2	8 0								
3 4	400 Gt. West Chiverton, s.l (8000 shares). 2 096 Great Wh. Lovell, t, Wendron 2	10 0 =								
2 15 3 10	000 Grogwinion, l, Cardigan*	5 0								
3 6	000 Hobb's Hill (£2), t, St. Neot*	10 0 16 16 16								
3 6	0000 Keswick United, l* 5 000 Keswick United, l* 5 000 Killifreth, t, Chacewater	15 0 1¼1¼ 1¼ 0 0 2 0 ¼ ¼ ¼								
1 10	000 King Arthur, s, t, Tintagel 1 000 Lady Ashburton, c, s-l, t, Callington 0	2 0								
2 2	500 Levant, c. t. St. Just	10 0								
200	000 Llanarmon, Denbigh	0 0 21/117/4 21/4								
66	000 Llywernog, l, Cardiganshire 01 000 Llynclys Unit., l, c, ozide, Salop. 2 000 Marke Valley, c, Caradon* 41	0 0								
60	000 Medlyn Moor, t, Wendron 0 000 Mellanear, c, Hayle*	3 4 ½ ½ ½ 0 0 —								
110 250	00 Melindur Valley, *-!, Cardigan* (£3). 1 00 Mount Dalby, *-!, Isle of Man*	0 0 134134 134								
40	44 Nangiles, t, c, Kea	0 0 4 1/2								
100	00 Nant y-Ricket, * c, l, Montgom 5 00 New Beldon, l, Northumberland* 1 50 New Cook's Kitchen, t, Camborne 2 1	0 0 93/								
	96 New East Levell t Wordson	2 6 % % % 0 0 1%1% 1%								
20 64	00 New Hendra, t, Breage 1	8 6 1341½ 1½ 2 0 2½2½ 2½ 2 0 1½1 1½								
	00 New Rosewarne, c, Gwinear	0 0								
50	00 New West Rosewarne, t, Gwinear 5 00 New Wheal Charlotte, t, c*	0 0 11/ 1 11/4								
31: 12:	00 New Wh. Grylls, t, Perranuthnoe 0 1 03 New Wheal Lovell, t, Wendron 5 1:	6 6 3 6 ½ ½ ½ 6 8 1 ¾ 1								
5	19 North Bury United 4 . France	8 0								
200	10 North Wheal Crofty, c, Illogan 1 4	1 9 1/8 1/8								
1000	90 North Pool, c, Illogan*(Reserve 2500) 2 ( North Rosewarne, c, Gwinear 5 13	0 0 1½ ½ 1½ 2 6 2½1½ 2½ 9 0 4 3 3½								
1200	00 North Tankerville, I, Salop*	10								
595 1200	16 North Treskerby, c, St. Agnes 3 (O) Old Batholes, 4, Balon 1 10	0 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								
2700 1500	00 Old Treburgett,s-l,(&9000pref.10s.fpd)1 0 00 Oola Hills,* l, c, Limerick	0 0 1/4 1/4								
2400	O Parys Mountain, c, Anglesea* 8 (6 Pendarves United, t, c, Camborne 105 b	5 0 1								
1200	0 Pennerley, l, Shropshire* 2 0	5 0 2½ 1½ 2 1								
1200	O Pen-yr-Henblas, l, North Wales* 1 0 Perkins Reach. l. Salon*	0								
600 300	0 Perran Consols, t, Perran 2 2 0 Phœnix, *-/, Perranzabuloe 9 0	0								
1200 200	0 Pilynimmon, t, Llanidloes*	· 4 %								
200	0 Polhigey Moor, t, Wendron	0 =								
1280 800 387		0 % % % 7								
1200 1500	0 Rhydtalog, s-l, Cardiganshire	0 11/11/11/11								
586 600		0 56 36 56								
300 612	0 Russell, st, Swymbridge 0 6 3 South Condurrow, t, c, Camborne; 6 5	6 5% 4% 5%								
51	2 South Delcoath, c. t. Redruth 9 15	0 4 34								
500	0 South Fowey, t, c, Tywardreath 2 6 0 South Great Work, t, St. Hilary 2 9 0 South Kit Hill, t, Callington* 1 0	6								
1200	9 South Lisburne, l, bl, Cardigan* 0 12 9 South Margaret, l, Ludgvan	0 136136 136								
250 1200	0 South Merllyn, l, Flint*	0 2 11/4 2								
12000	0 South Plynlimmon, l, Llanidloes* 1 7 0 South Roman Gravels, l, Salop* 1 10	0 1 % 1%								
6000	9 South Roskear, t, c, Camborne 8 0 9 South Tolcarne, t, c, Camborne 0 12	6 7/2 5/2 7/2								
3000	0 South Van, cl., Montgomeryshire 1 0 0 South Ward, l., Beerferris	0 1 3/ 1								
6000	South Wh. Frances, c. Illogant 35 3 South Wheal Kitty, f. St. Agnes 0 5	9 91/2 10 12								
14000	St. Agnes Consols, t*	0 4¼4½ 4¼ 0 2½2½ 2½								
62000	St. Breward Consols, c,s, Cornwall 1 0	0								

1	NON-DIVIDEND MINES			
.	Shares. NON-DIVIDEND MINES.	-00 Do	mtin	ued.
1	Mines.   Mines.   2000 Tamar Consols, st, Litton, Devon   3879 Tamar Valley, s-l, Beeralston   4000 Teign Valley, l, bar, Bridford   3526 Tin Valley, St. Neot   5000 Treleigh Wood, t, Redruth   1024 Treleigh Wood United, t, Redruth   547 Treleyon Consols   487 Televon Consols   487 T	1		ast Pr.
	4000 Teign Valley / bar Bridger	11	0 0.	
- 1	3526 Tin Valley, St. Neot	1	U O	
1	5000 Treleigh Wood, t, Redruth	3 1	9 6	
-	1024 Treleigh Wood United, t, Redruth	1		
1	547 Trelyon Consols			1% %
-				74
1	15000 Tretoil,* t, i, Bodmin	- 1	0 0	
1	2800 Trevarrack, t, c, Uny Lelant	4		111
1	12000 Tucker's Downs, Camborne	3	0.0	1361
	12000 Tyllwyd, * ¿-, Cardigan 6000 Unity Wood, † , c, Kenwyn 15000 Van Consols, I, Llanidlees* 1000 Vaughan, ¿-l, Cardigan	1	U D	1%]
	15000 Van Consols, l, Llanidloes*	2 1	7 6 0 0	4%
1	1000 Vaughan, s-l, Cardigan	7	0 0	·/s
	25000 Vron United ed Flintshine	1	0 0	- "
18	30000 Welsh, l, Cardigan*	1	0 0	
1	30000 Welsh, l, Cardigan South West Basset, c, Illogan 1.	3 1	0 0 6 8	- "
1	110592West Caradon, c, St. Cleer*†1	1	1 0	X
1	10000 W. Esgair Lle / Card *(1000 possesses)	0 1	0	***
1	5000 West Godolphin, t, c, Breage	2 (	0	3368
1	100 West Caratton, c, bt. Cleer* 17 100 West Condurrow, t,c, Camborne 100000 W. Esgair Lle, t, Card.* (1000 reserve) 5000 West Godolphin, t, c, Breage 12000 West Godinan,* Cardiganshire 5164 West Great West.	2 (	0 0	2%
			1 0	1%
	1000 W. Gwennap Consols, t, c, Gwennap 8750 WestJewell,t,Gwennap*(pref.½prem.)	5 (	0	- "
1		2 6	0	- ***
	2000 West Maria & Fortescue, t. c. Lamer	• 7	6	-v"
	0000 West Milwr, s-l, Flint 2000 West Pant-y-Go, s-l, Flint	1 (	1 0	1%
1 -	3000 West Phonix, t, Linkinhorne	0 13	0	36
1.	1403 West Polbren, t, St. Jinkinnorne 1403 West Polbren, t, St. Agnes 0000 West Roskear, t, s-l, bl, c, Camborne 2000 West Stiperstones, t, Salop*	3 5	0	- ***
1	0000 West Roskear, t, s-l, bl, c, Camborne	0 2	0	34."
1	2000 West Stiperstones, f, Salop* 2000 West Tankerville, f, Salop* 512 West Tolgus, c, Redruth 2000 West Wheal Lucy, f, c, Lelant 8000 West Wheal Gorland, f, c 600 West Wheal Seton, c, Cambornet 8000 Wheal Agar, c, Lilogan	1 0	0	- "
1.	512 West Tolgus, c, Redruth	0 10	0	2342
	2000 West Wheal Lucy, t, c, Lelant	10	6	271/4
1	8000 West Wheal Gorland, t,c	3 0	0	2
	600 West Meast setch, c, Cambornet 65 6900 Wheal Agar, c, Illogan	15	0	45% 3
	8000 Wheal Argus, t, Sancreed	10	0	-
2	5000 Wheal Arthur, t, c, Calstock*	0	0	11/4
	741 Wheal Basset and Grylls, t	18	6	***
	3000 Wheal Coates, t. St. Agnes	0 0	0	11
			0	5
	3000 Wheal Emma, t, c, Buckfastleigh 1	. 5	0	- 111
	5120 Wheal Grambler, c, t, Redruth	7	0	-
	2048 Wheal Jane, f. Kea 2	13	6	6146
12	2000 Wheat Jewen, c, Marazion 1	1	0	2142
		5	0	3%3
	0000 Wheal Osborne, t, Crowan	10	0	-
	000 Wheal Prussia, t, Rednith 2	0	0	5145
10		0	0	- 11
4	568 Wheal Sparnon, t, Redruth	0	0	
4	000 Wheal Speedwell, t, c, Breage	0	6	21/"
6	000 Wheal Vincent, t, Alternun 1	9	6	-74 2
8	000 White Works, t, Dartmoor* 5	0	0	- "
12	1999 Wheat Univ. t, c, Rederith	10	0	
1	200 Zennor, t, Cornwall 5	10	0	10
-	• • • • • • • • • • • • • • • • • • • •	0		10 9
	IRON AND COAL COMP	. 37	TTIO	

6	6000 Wheal Vincent, t, Alternun 8000 White Works, t, Dartmoor*	I	1 9 6	"	21/4	2 25
	8000 White Works, t, Dartmoor*	***	5 0 0			
	10000 Wood Close & Polgouth, t, St. Mew	*	2 10 0 2 10 0	-		
	1200 Zennor, t, Cornwall		5 0 0	1		91/4
	IRON AND COAL CO	23.61	D 4 371	THO		
	Shares, Company,	)MI	aid.	ES.	Pri	
	Shares. Company.  £100 John Abbot and Co. [L.]  15 Abbon Steel and Wire Co. [L.]	. £7	5 0 0	1	dia,	ce,
	15 Albion Steel and Wire Co. [L.] 100 Ashbury Co. [L.]		au u	4		3%
1	5 Bath Colliery Co. [L.]	. 90		25	ar 2	2%
	5 Bath Colliery Co. [L.] 5 Ditto B shares [L.] 10 Rephar Coal Co. [L.]	. :	2 10 0	D	ar	X
	50 Bilbao Iron Ore Co. [L.]	3		10		9%
	10 Benhar Coal Co. [L.] 50 Bilbao Iron Ore Co. [L.] 50 Blaenavon Iron and Steel Co. [L.].	3	10 0		1	0½ p
1	20 Dolekow, vaugnan, and Co. [L.]A	3	5 0 0	28		
1	30	30		24	3	
1	5 Brynkinalt Collieries [L.]		0 0.			1% 1
1	50 Britannia Ironworks [L.]	20	5 0 0		-	-
Į	50 Brown, Bailey, and Dixon [L.] 100 Brown, John, and Co. [L.] 100 Cammell and Co. [L.]	70	0 0	12	13	
1	100 Cammell and Co. [L.]	. 80	0 0.	6	-	4 6
1	20 Cannock and Huntingdon Coal [L.] 10 Cardiff & Swansea St. Coal Co. [L.] 10 Cardigan Steel and Wire Co. [L.]	3		P	ar	% P
1	10 Cardigan Steel and Wire Co. [L.]	2	10 0.	2		9
Ì				7	\$	5 6
Ì	50 Charlton Iron Co. [L.] 50 Charlton Iron Co. [L.] 50 Chatterley Iron Co. [L.] 10 Chillington Iron Co. [L.] 1 Clee Hill Colliery Co. [L.]	40	0 0.	4	4	1% m
1	10 Chillington Iron Co. [L.]	10	0.0.	6	% 1	X
1	10 Consett Iron Co. [L.]	7	0 0. 10 0.	17	17	% p
1	1 Consett Spanish Ore [L.]	i	0 0.	1	1	% P
-	1 Ciec Hill Colliery Co. [L.]	10	0 0	. 4	V 3	% pa
1	10 Davis's Merthyr Colliery Co. [L.]	10	0.0.	2	2	13% 10
-	15 Davy Brothers [L.]	435	0 0	143	2 10	. pa
1		29	0 0.	15		d
1	20 General Mining Association [L.]	20	0 0	. 12	13	
l	10 Glasgow Port Washington [L.] 2 Gwyngwillim Colliery Co. [L.]	3	0 0	. 25	4 2	14 10
l	15 Hopkins, Gilkes, and Co. [L.]	10	0 0	. 13	1	% pa
ŀ	10 Ifton Rhyn Colliery Co. [L.]	8	0 0	. 2	1	が は は
l	10 John Bannall and Sons CT 1	4	0 0.,	. 3	4 1	10
ı	10 Llay Hall Coal, Iron, & Firebrick [L.] 5 Littledean Woodside Coll. Co. [L.]	10	0 0	. De	ır. 1	pa
	50 Llynvi, Ogmore, & Tondu Co. [L.]	42	0 0	. 3	4 1	200
	50 Llynvi, Ogmore, & Tondu Co. [L.] 10 Lydney and Wigpool Iron Ore [L.] 10 Marbella Iron Ore Co. [L.]	6	0 0	. 25	6 1	4 6
		10	0 0	. 5		% di
	6 Mersey Steel and Iron Co. [L.]	5	0 0		par	
	5 Mold Argoed Colliery Co. [L.] 10 Monkland Iron and Coal Co. [L.]	10	0 0	1%	1	% PO
	To Midland Iron Co. [L.]	5	0 0	. 759	6 8	to
	4 Mwyndy Iron Ore [L.] 100 Nant-y-Glo and Blaina (8 p. c. pref.)	100	10 0	. 2%	68	N da
	10 Native Iron Ore [L.] 10 Neepsend Rolling Mills [L.]	7	0 0	. 2	dis.	pas
	10 Neepsend Rolling Mills [L.]	3	0 0	. 13/	6 13	K pm
	10 No. of Ireland Iron Company [L.]	3	8 0		16 di	
	10 Northmoth. Coal, Iron & Wagon [L.]	3	0 0	. 3	27	y pm
	10 Northfield Iron Co. [L.]	25	0 0	83/	81	死血
	100 Parkgate Iron Co. [L.]	65	0 0	. 331	\$ 35	7004
	20 Patent Shaft and Axletree [L.] 20 Pelsall Coal and Iron [L.]	10	0 0	. 8	83	H lan
		15	0 0	634		Day Inc.
	1 Port Gaveron Iron	1	0 0		-	
	50 Rhymney Iron Co. [L.]	80	0 0	160	170	pm,
	50 Shotts Iron Co. [L.]	50	0 0	. 35	40	pm
	100 Sheepbridge Iron and Coal [L.] 10 Sheffield Forge and Rolling Mill [L.] 50 Silkstone & Dodworth Cl. & Iron[L.]	55	0 0	47%	52	
	50 Silkstone & Dodworth Cl. & Iron[L.]	17	0 0	21/2	5	la-
	5 Silkstone Fall Colliery Co. [L.]	4	0 0		_	
	5 Silkstone Fall Colliery Co. [L.] 20 Skerne Ironworks [L.] 50 Somerostro Iron Co. [L.] 100 Staveley Iron and Coal Co. [L.] 100 Ditto ditto New 10 Stranton Iron and Steel Co. [L.]	20 50	0 0	par	2	pm.
	100 Staveley Iron and Coal Co. [L.]	60	0 0	60	15	bur bur
	10 Stranton Iron and Steel Co. [L.]	10	0 0	14	10	
	10 Stranton Iron and Steel Co. [L.] 20 South Cleveland Ironworks [L.] 100 Thames Iron Company	20	0 0	5		dis.
		5	0 0	9	11	Inc
	20 Ulverston Mining Co. II. ?	10	9 0	36	dis. M	pa.
	1 United Bituminous Collieries [L.]	6	0 0	par 21/4	23	( 150)
	100 Vickers, Sons, and Co. [L.]	100	0 0	25	85	pm.
	10 Wedgwood Coat and Iron L.	10	0 0		-	
	50 Weish Ironworks Co. [L.] 25 W. Cumberland I. and Steel [L.]	50 20	0 0	2	1	dis.
		3	0 0	-	-	
	10 Whitehaven Iron Co. [L.]	10	0 0	20	25	pst
	10 Whitehaven Iron Co. [L.] 100 Wigan and Whiston Coal Co. [L.] 100 Wigan Coal and Iron Co. [L.]	75	0 0	20	-	
	MISCELLANEOU	S.			10	
		10 25	0 01	11	103	
		25	0 0	13/2	14%	dia.
	10 Huntingdon Conner and Sul Co	94	0.0	314	21/4	12,000

Į		MISCELLANEO	US.					
Į	10	Anglo-Mexican Mint	10	0	0	11	13	
I	25	Canada Company	25	0	0	101	103	
1	25	Copper Miners of Eng. (7 p. c. pref.)	25	0	0	131/2	14%	die
Į	10	Huntingdon Copper and Sul. Co	- 8	0	0		2½ 1½	15
ı	5	Patent Gunpowder	2	10	0	21/4	1%	GB
I	10	Silber Light (ord. sh.)			0		-	
Ì	10	Tharsis Sulphur and Copper Co	10	-0	0	3834	39	
ì	10	Young's Paraffin Light	8	10	0	6	6%	_
-	10 10	Tharsis Sulphur and Copper Co Young's Paraffin Light			0		61/4	

b, blende; cl, coai; c, copper; g, gold; l, lead; s, sliver; sl, slaw; s-l, sliver-lead; l, tin; z, zinc.
Limited Liability Companies; i quoted on the Stock Exchange.
I have paid dividends.

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